HCD-D1/T1

SERVICE MANUAL

E Model

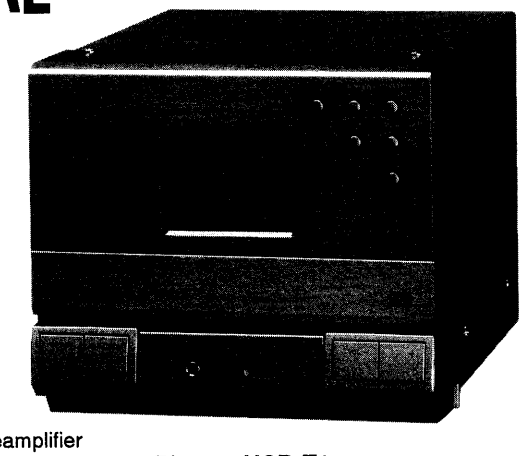


Photo : HCD-T1

- HCD-D1/T1 is the tuner, CD player and preamplifier section in CMT-D1/M1/T1.

Model Name Using Similar Mechanism	NEW
CD Mechanism Type	CDM13C-5BD19
Base Unit Type	BU-5BD19

SPECIFICATIONS

Tuner section

Tuning range
- FM: 87.5 – 108 MHz
- AM: 531 – 1,602 kHz (at 9 kHz interval)
- 530 – 1,710 kHz (at 10 kHz interval)

Intermediate frequency
- FM: 10.7 MHz
- AM: 450 kHz

Aerial terminals
- FM: 75 ohm unbalanced
- AM: External aerial terminal

Timer: Quarts lock system

Timer setting
- One-minute step

Sleep timer
- 10-minute step, max. 90 minutes

CD player section

System: Compact disc digital audio system

Laser: Semiconductor laser

Wavelength
- 780 – 790 nm

Frequency response
- 2 Hz – 20 kHz ±0.5 dB

Signal to noise ratio
- More than 90 dB

Harmonic distortion
- Less than 0.03%

Preamplifier section

Frequency response
- 15 Hz – 50 kHz $^{+0}_{-3}$ dB

Inputs: MD IN:
Stereo phone jack, sensitivity 450 mV, impedance 47 kilohms

Outputs: DIGITAL OUT (CD OPTICAL OUT) jack:
Digital connector, –18 dBm, wavelength 660 nm
OUTPUT jack:
Stereo phone jack, 1 V, 1 kohm
MD OUT jack:
Stereo phone jack, 250 mV, 1 kohm
PHONES (headphones) jack:
Stereo mini jack, accepts headphones of 8 ohms or more.

General

Power requirents
- 120V or 220 – 240V AC, adjustable, 50/60Hz

Power consumption
- 25W (HCD-T1)
- 20W (HCD-D1)

– Continued on page 2 –

TUNER CD PLAYER

SONY®

Dimensions
Approx. 142 × 125 × 252 mm (w/h/d) ($5^5/_8$ × 5 × 10 inches) incl. projecting parts and controls

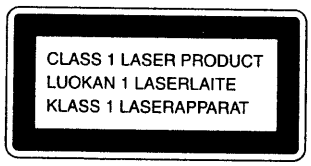
Mass Approx. 3 kg (6 lb 10 oz)

Supplied accessories

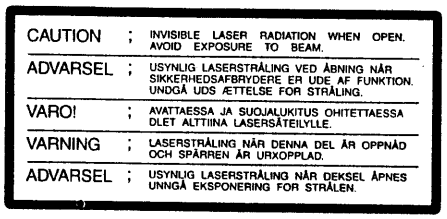
AM loop aerial (1)
Sony RM-ST1 Remote (1) : HCD-T1
Sony RM-SD1 Remote (1) : HCD-D1
Sony SUM-3 (NS) batteries (2)
FM lead aerial (1)
Speaker cable (1)
Audio cord (1)

Design and specifications are subject to change without notice.

Laser component in this product is capable of emitting radiation exceeding the limit for Class 1.



This appliance is classified as a CLASS 1 LASER product. The CLASS 1 LASER PRODUCT MARKING is located on the rear exterior.


CAUTION ; INVISIBLE LASER RADIATION WHEN OPEN. AVOID EXPOSURE TO BEAM.
ADVARSEL ; USYNLIG LASERSTRÅLING VED ÅBNING NÅR SIKKERHEDSAFBRYDERE ER UDE AF FUNKTION. UNDGÅ UDS ÆTTELSE FOR STRÅLING.
VARO! ; AVATTAESSA JA SUOJALUKITUS OHITETTAESSA OLET ALTTIINA LASERSÄTEILYLLE.
VARNING ; LASERSTRÅLING NÄR DENNA DEL ÄR OPPNÅD OCH SPÄRREN ÄR URXOPPLAD.
ADVARSEL ; USYNLIG LASERSTRÅLING NÅR DEKSEL ÅPNES UNNGÅ EKSPONERING FOR STRÅLEN.

This caution label is located inside the unit.

CAUTION
Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

TABLE OF CONTENTS

Section *Title* *Page*

1. SERVICING NOTES ····· 3

2. GENERAL
Front Panel ····· 4
Rear Panel ····· 4
Display Window ····· 4
Remote (RM-ST1) ····· 5
Remote (RM-SD1) ····· 5

3. DISASSEMBLY
3-1. Front Panel Section Removal ····· 6
3-2. Back Panel Section Removal ····· 6
3-3. CD Mechanism Removal ····· 7

4. DISC TABLE GETTING OUT PROCEDURE ON THE POWER SUPPLY IS OFF ····· 7

5. ELECTRICAL ADJUSTMENTS ····· 8

6. EXPLANATION OF IC TERMINALS ····· 11

7. DIAGRAMS
7-1. Printed Wiring Boards – Main Section – ····· 13
7-2. Schematic Diagram – Main Section – ····· 17
7-3. Printed Wiring Boards – BD Section – ····· 21
7-4. Schematic Diagram – BD Section – ····· 22

8. EXPLODED VIEWS
8-1. Front Panel Section ····· 25
8-2. Chassis Section ····· 26
8-3. Mechanism Section-1 ····· 27
8-4. Mechanism Section-2 ····· 28

9. ELECTRICAL PARTS LIST ····· 29

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK ⚠ OR DOTTED LINE WITH MARK ⚠ ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

SECTION 1
SERVICING NOTES

NOTES ON HANDLING THE OPTICAL PICK-UP BLOCK OR BASE UNIT

The laser diode in the optical pick-up block may suffer electrostatic breakdown because of the potential difference generated by the charged electrostatic load, etc. on clothing and the human body.
During repair, pay attention to electrostatic breakdown and also use the procedure in the printed matter which is included in the repair parts.
The flexible board is easily damaged and should be handled with care.

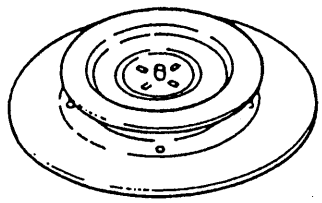
NOTES ON LASER DIODE EMISSION CHECK

The laser beam on this model is concentrated so as to be focused on the disc reflective surface by the objective lens in the optical pick-up block. Therefore, when checking the laser diode emission, observe more than 25cm away form the objective lens.

CHUCK PLATE JIG ON REPAIRING

On repairing CD section, playing a disc without the CD lid, use Chuck Plate Jig.

- Code number of Chuck Plate Jig : X-4918-255-1



The following chart is products handling countries for General Area.

- Abbreviation
  HK : Hong Kong
  SP : Singapore
  E : Central and South America

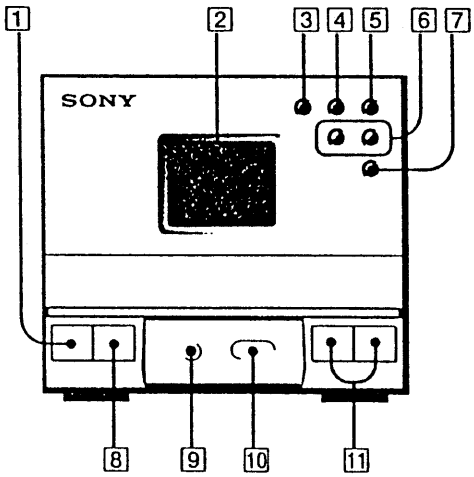
Model / Country	HCD-M1		HCD-T1			HCD-D1
	HK	SP	E	HK	SP	SP
Singapore		○			○	○
Malysia					○	○
Thailand					○	○
Indonesia					○	○
United Arab Emirates, Saudi Arabia					○	○
Hong Kong	○			○		
Mexico					○	
Puerto Rico			○			
Panama			○			
Chile					○	

SECTION 2
GENERAL

This section is extracted from instruction manual.

Front Panel

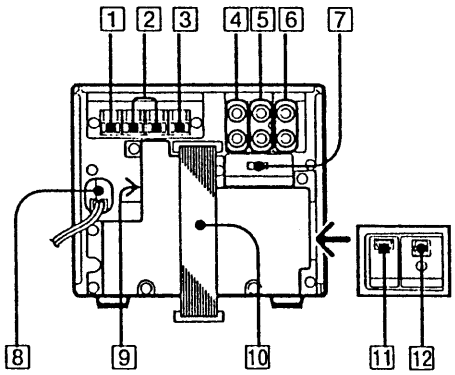
Tuner CD player



1 POWER switch
2 Display window
3 ▶II (play / pause) button
4 ■ (stop) button
5 ⏏ (open/close) button
6 I◀◀ ◀◀ and ▶▶ ▶▶I (AMS / search)/ TUNING + and – buttons
7 BAND button
8 FUNCTION button
9 PHONES jack
10 Remote sensor
11 VOL + and – buttons

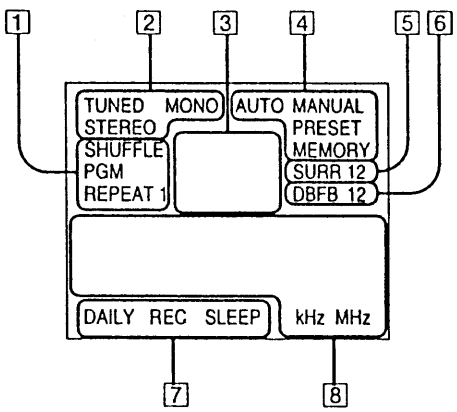
Rear Panel

Tuner CD player



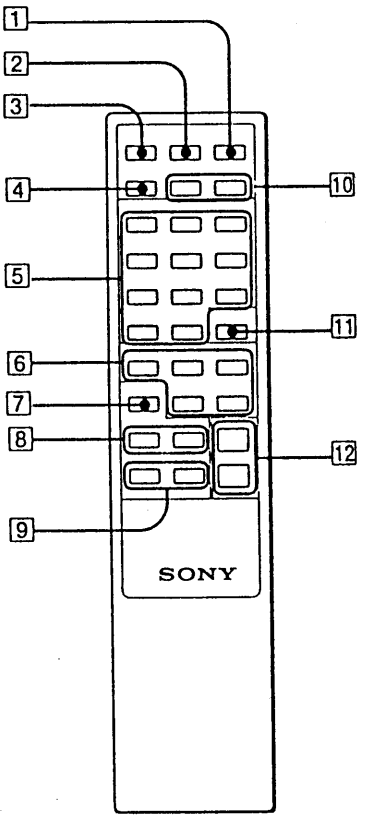
1 FM 75 Ω terminal
2 ⏚ (earth) terminal
3 AM terminal
4 MD OUT jacks
5 MD IN jacks
6 OUTPUT jacks
7 VOLTAGE SELECTOR
8 Mains lead
9 AC OUTLET connector
10 SYSTEM CONTROL cable
11 AU BUS (audio bus) connector
12 DIGITAL OUT (CD OPTICAL OUT) jack

Display Window



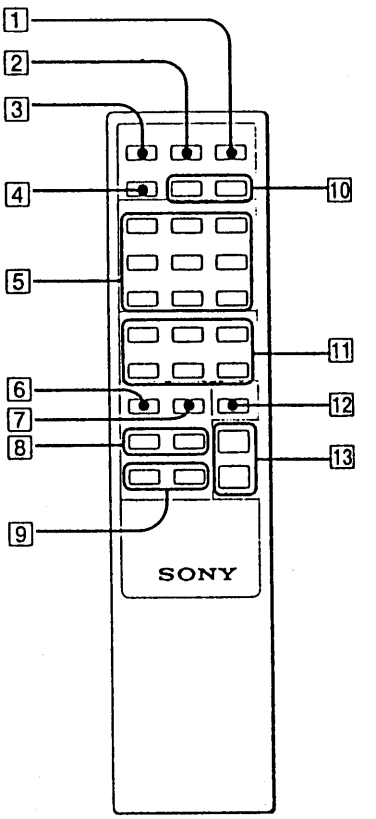
1 CD play mode indications
2 Tuner indications
3 Track number/band indication
4 AUTO / MANUAL / PRESET / MEMORY indications
5 SURR (surround) indication
6 DBFB indication
7 DAILY / REC / SLEEP timer indications
8 Function / Time / frequency indication

Remote (RM-ST1) : HCD-T1



1 SYSTEM POWER switch
2 SLEEP button
3 TIMER SELECT button
4 TIMER SET button
5 CD and tuner operating buttons
► (play) button
II (pause) button
■ (stop) button
BAND button
TUNING + and – /I◄◄ and ►►I (AMS) buttons
STEREO / MONO button
TUNING / PLAY MODE button
REPEAT button
DISPLAY button
MEMORY button
6 Tape operating buttons
◄ (reverse side play) and ► (front side play) buttons
■ (stop) button
◄◄ (fast leftward) and ►► (fast rightward) buttons
7 FUNCTION button
8 Sound adjustment buttons
DBFB button
SURROUND button
9 BALANCE L and R buttons
10 TIMER + and – buttons
11 ENTER button
12 VOL + and – buttons

Remote (RM-SD1) : HCD-D1

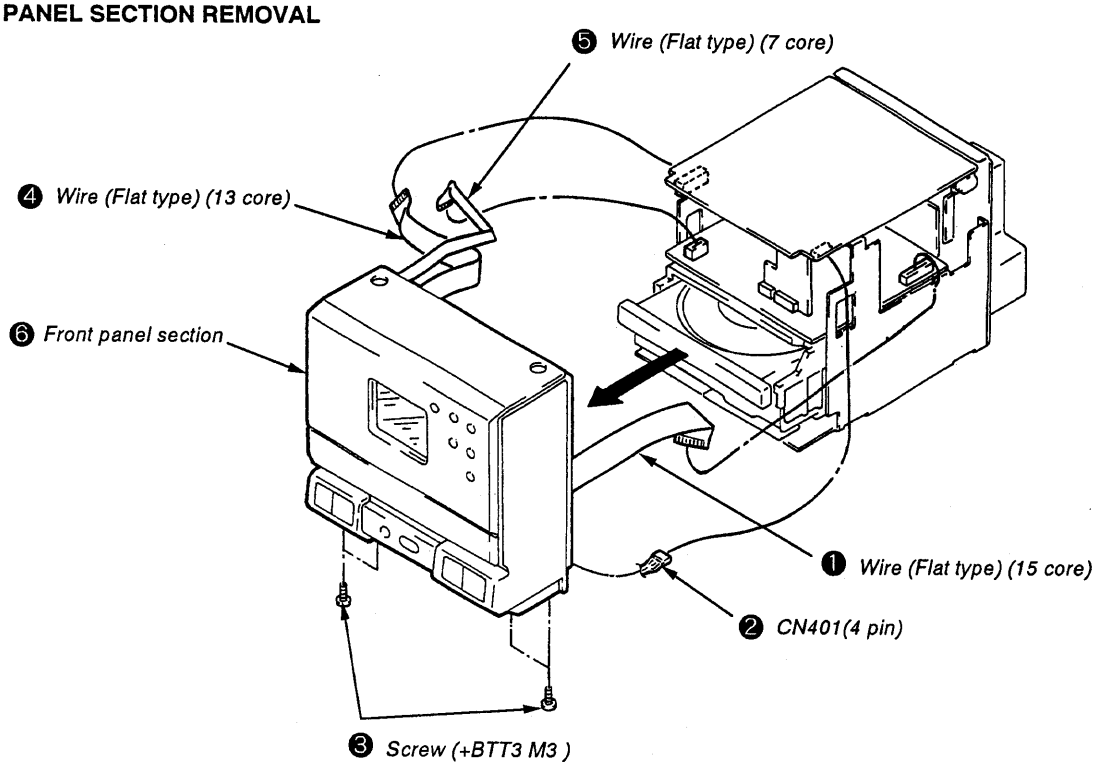


1 SYSTEM POWER switch
2 SLEEP button
3 TIMER SELECT button
4 TIMER SET button
5 CD operating buttons
► (play) button
II (pause) button
■ (stop) button
I◄◄ and ►►I (AMS) buttons
CONTINUE button
SHUFFLE button
PROGRAM button
REPEAT button
6 FUNCTION button
7 DISPLAY button
8 Sound adjustment buttons
DBFB button
SURROUND button
9 BALANCE L and R buttons
10 TIMER + and – buttons
11 Tuner operating buttons
BAND button
TUNING + and – buttons
TUNING MODE buttons
STEREO/MONO button
MEMORY button
12 ENTER button
13 VOL + and – buttons

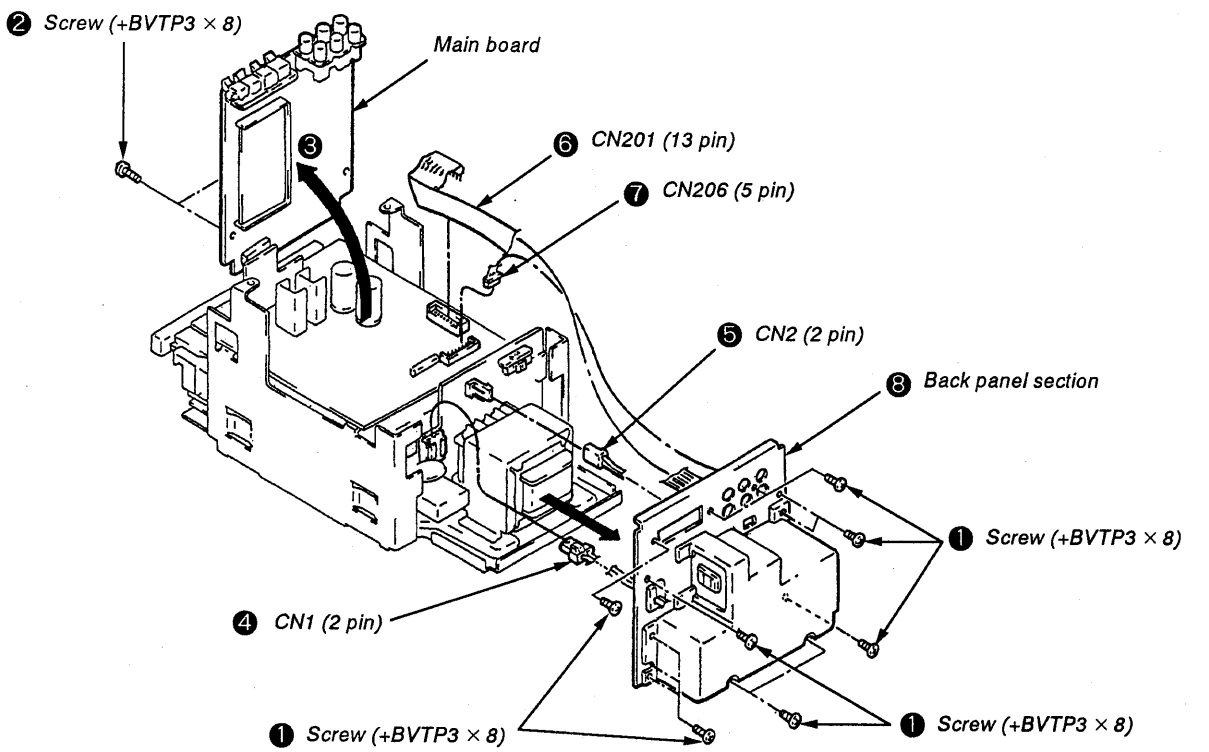
SECTION 3
DISASSEMBLY

Note : Follow the disassembly procedure in the numerical order given.

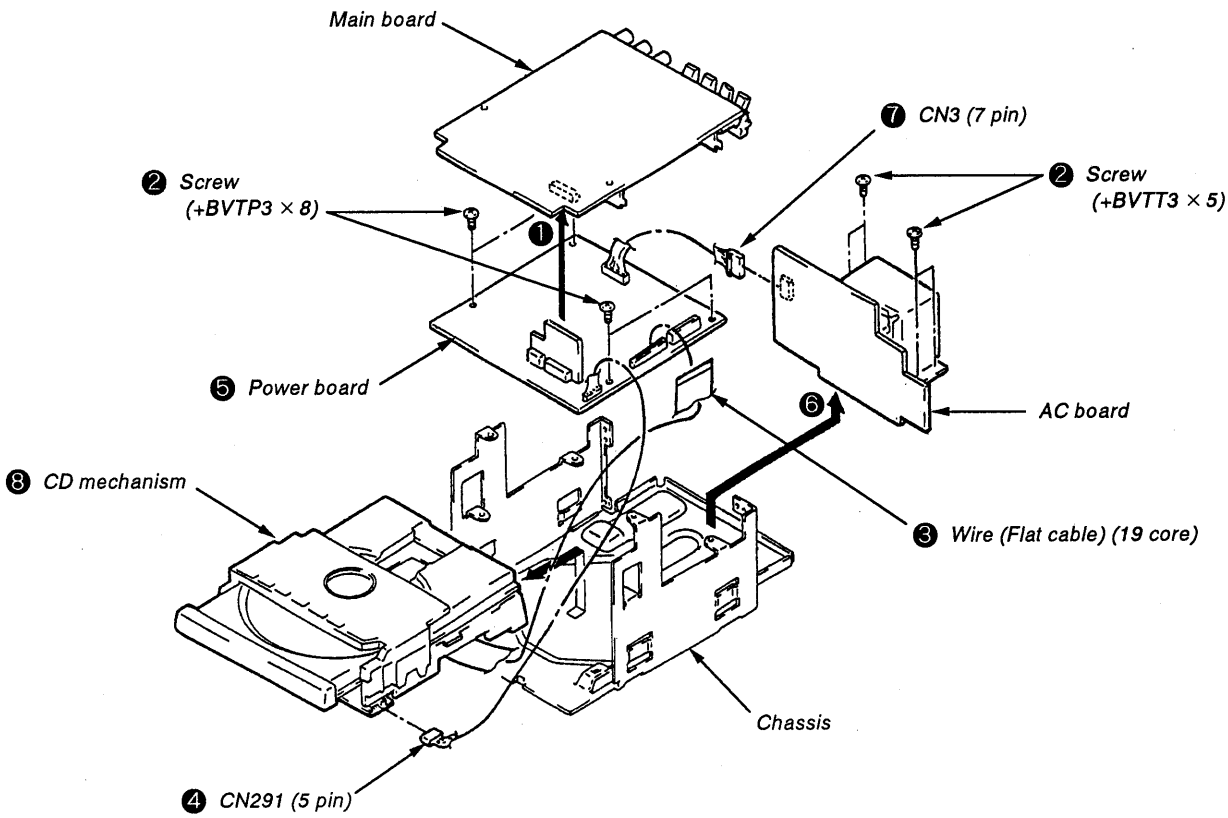
3-1. FRONT PANEL SECTION REMOVAL



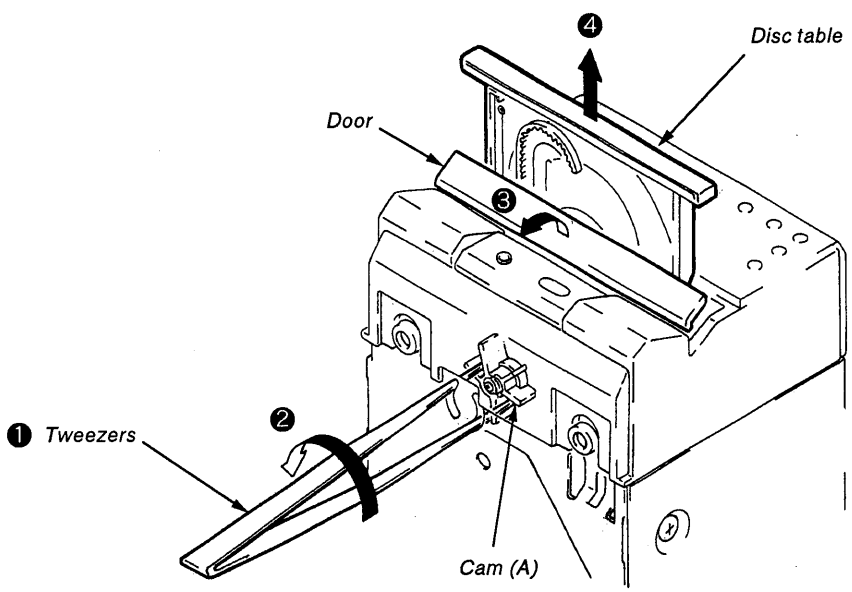
3-2. BACK PANEL SECTION REMOVAL



3-3. CD MECHANISM REMOVAL



SECTION 4
DISC TABLE GETTING OUT PROCEDURE ON THE POWER SUPPLY IS OFF



SECTION 5
ELECTRICAL ADJUSTMENTS

TUNER SECTION

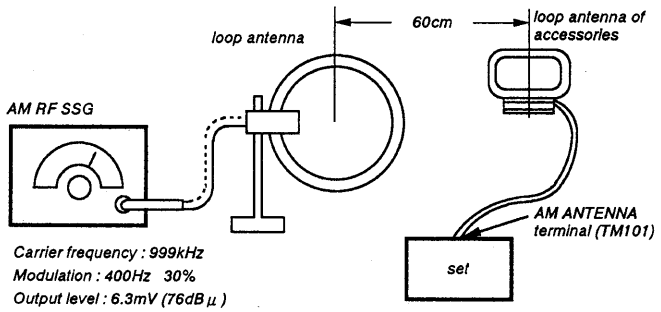
As a front-end (TB101) is difficult to repair if faulty, replace it with new one.
Please note, however, that the following adjustments are possible :

AM Section Adjustment

AM Tuned Indication Lighting Level Adjustment

Band : MW

Setting :



Procedure :

1. Set AM RF SSG output level to 76dBμ so that the input level becomes 50dBμ .
2. Tune the set to 999kHz.
3. Adjust [AM TUN (W)] so that the TUNED light up.

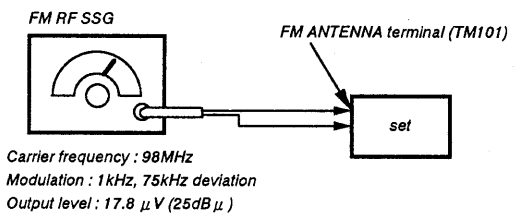
Adjustment Location : Main board (TB101) (See page 10)

FM Section Adjustment

FM Tuned Indication Lighting Level Adjustment

Band : FM

Setting :



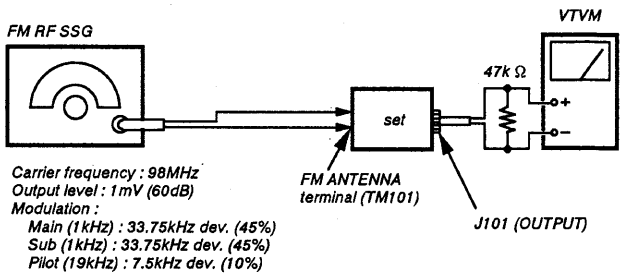
Procedure :

1. Supply a 17.8μV (25dBμ) 98MHz signal to the ANTENNA terminal.
2. Tune the set to 98MHz.
3. Adjust [FM TUN (W)] so that the TUNED light up.

Adjustment Location : Main board (TB101) (See page 10)

FM Stereo Separation Adjustment

Setting :



Procedure :

Turn the set to 98MHz.

FM stereo signal generator output channel	VTVM connection	VTVM reading (dB)
L-CH	L-CH	Ⓐ
R-CH	L-CH	Ⓑ Adjust [SEP (W)] for minimum reading.
R-CH	R-CH	Ⓒ
L-CH	R-CH	Ⓓ Adjust [SEP (W)] for minimum reading.

L-CH Stereo separation : Ⓐ − Ⓑ
R-CH Stereo separation : Ⓒ − Ⓓ

The separations of both channels should be equal.

Adjustment Location : Main board (TB101) (See page 10)

CD SECTION

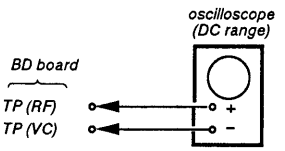
Note :

1. CD Block basically constructed to operate without adjustment. Therefore, check each item in order given.
2. Use YEDS-18 disc (3-702-101-01) unless otherwise indicated.
3. Use the oscilloscope with more than 10M Ω impedance.
4. Clean an object lens by an applicator with neutral detergent when the signal level is low than specified value with the following checks.

Focus Bias Adjustment

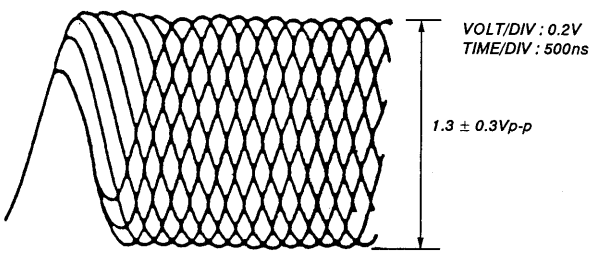
This adjustment is to be done when the optical block is replaced.

Adjustment procedure :



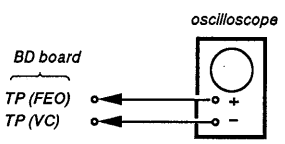
1. Connect oscilloscope to test point TP (VC) and TP (RF) on main board.
2. Ground display board IC704 pin ㉔ with the lead wire.
3. Turned power switch ON. (Stop mode)
4. Put disc (YEDS-18) in and press the ▶‖ button.
5. Press the ▶‖ button again. (Tracking servo ON)
6. Adjust RV101 so that the oscilloscope waveform is as shown in the figure below (eye pattern).
   A good eye pattern means that the diamond shape (◇) in the center of the waveform can be clearly distinguished.
7. Remove the lead wire connected in step2.

● RF signal reference waveform (eye pattern)



When observing the eye pattern, set the oscilloscope for AC range and raise vertical sensitivity.

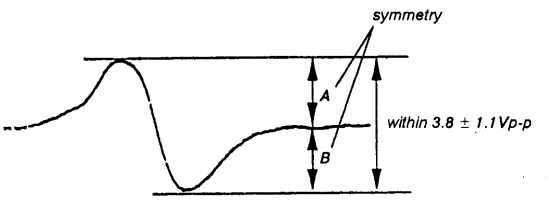
S-Curve Check



Procedure :

1. Connect oscilloscope to test point TP (FEO) and BD board.
2. Connect between test point TP (FOK) and TP (VC) by lead wire.
3. Turned Power switch on.
4. Put disc (YEDS-18) in and turned Power switch on again and actuate the focus search. (actuate the focus search when disc table is moving in and out.)
5. Check the oscilloscope waveform (S-curve) is symmetrical between A and B. And confirm peak to peak level within 3.8 ± 1.1Vp-p.

S-curve waveform

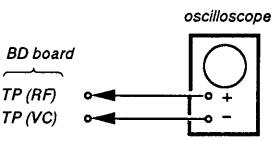


6. After check, remove the lead wire connected in step 2.

Note : ● Try to measure several times to make sure that the ratio of A : B or B : A is more than 10 : 7.

● Take sweep time as long as possible and light up the brightness to obtain best waveform.

RF Level Check



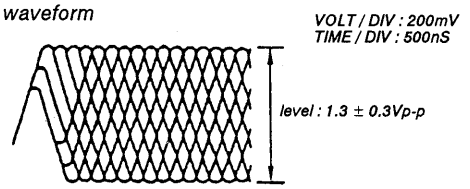
Procedure :

1. Connect oscilloscope to test point TP (RF) on BD board.
2. Turned Power switch on.
3. Put disc (YEDS-18) in and press the ▶‖ button.
4. Confirm that oscilloscope waveform is clear and check RF signal level is correct or not.

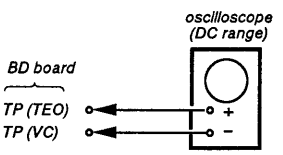
Note :

Clear RF signal waveform means that the shape " ◇ " can be clearly distinguished at the center of the waveform.

RF signal waveform



E-F Balance Check



Procedure :

1. Ground display board IC701 pin ㉔ with the lead wire.
2. Connect oscilloscope to test point TP (TEO) on BD board.
3. Turned Power switch on.
4. Put disc (YEDS-18) in and press the ▶‖ button.
5. Confirm that the oscilloscope waveform is symmetrical on the top and bottom in relation to 0V, and check this level.

Traverse waveform

Specified value : ● $\frac{A-B}{2(A+B)} \times 100$ = less than ± 7%

● A+B = 300 ± 100mVp-p

6. Remove the lead wire connected in step 1.

Focus/Tracking Gain

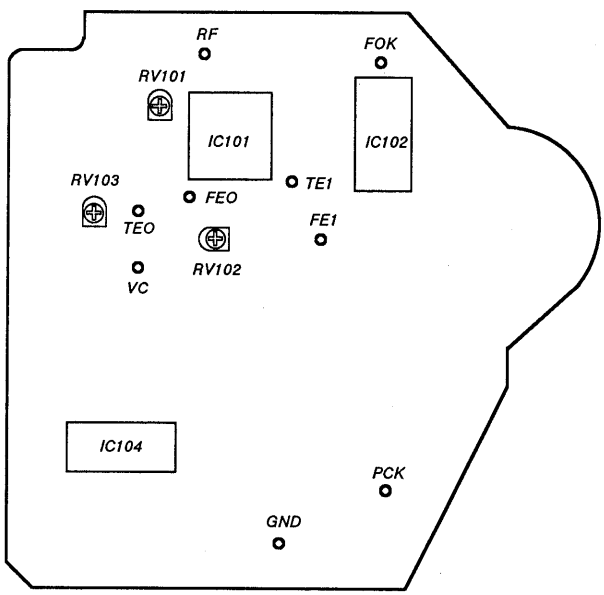
This gain has a margin, so even if it is slightly off. There is no problem.

Therefore, do not perform, this adjustment.

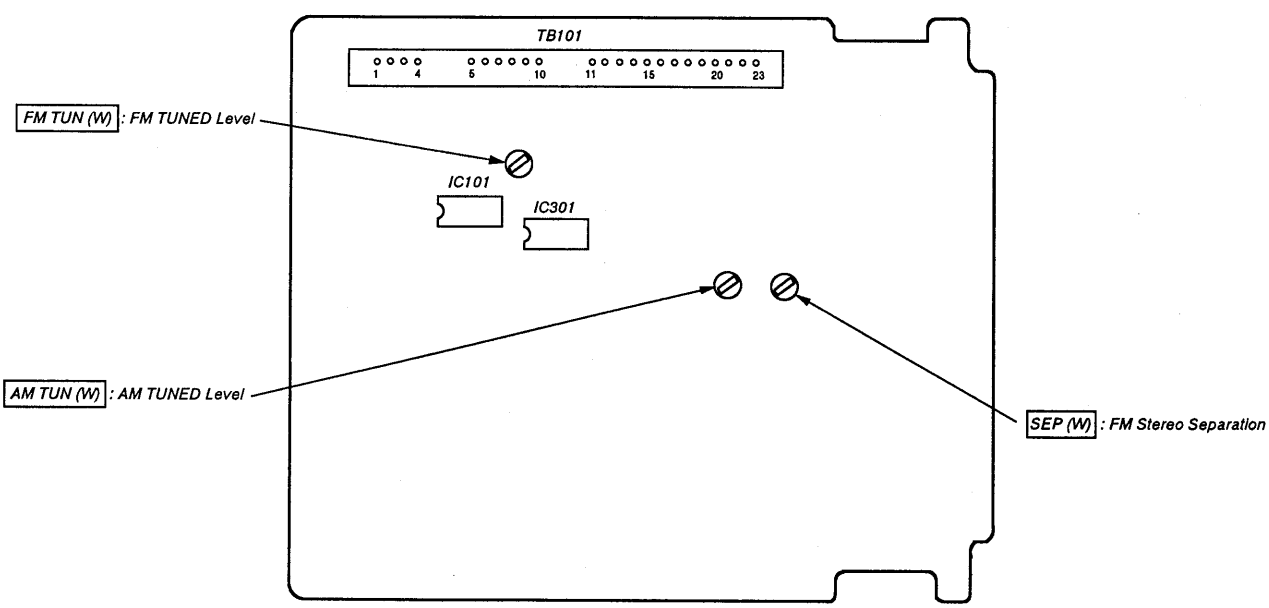
Please note that it should be fixed to mechanical center position when you moved and do not know original position.

Adjustment Location :

【BD BOARD】 – Component side –



【MAIN BOARD】 – Conductor side –



SECTION 6
EXPLANATION OF IC TERMINALS

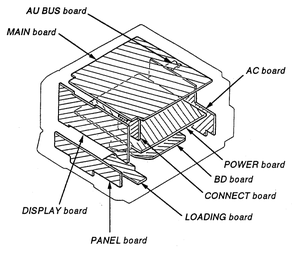
IC701 μPD78044AGF-102-3B9 (System Control : DISPLAY board)

Pin No.	Pin name	I/O	Description
1	7G	O	LCD drive.
2	6G		
3	5G		
4	4G		
5	3G		
6	2G		
7	1G		
8	VDD	–	Power supply. (+5V)
9	CD CLOCK	O	CD serial clock output.
10	CD DATA	O	CD serial data output.
11	SENSE	I	SENS input from DSP (CXD2507AQ).
12	XLT	O	Latch output to DSP (CXD2507AQ).
13	PRGL	O	Latch output to D/A converter (PCM710μ).
14	SQCLK	O	Sub-code Q data scanning clock output.
15	——	–	Not used. (OPEN)
16	SUB Q	I	Sub-code Q data serial input.
17	RESET	–	System reset.
18	BACK UP	I	Back up mode input terminal.
19	MD/TC	I	MD/TC select data input terminal.
20	A/D GND	–	A/D converter GND terminal.
21	FCS SW	O	Focus gain select data output.
22	LOAD OUT	O	Loading motor (M903) load out output.
23	LOAD IN	O	Loading motor (M903) load in input.
24	ADJ	I	CD test mode input. "L" : Test mode
25	IN/OUT SW	I	CD tray loading IN/OUT switch input.
26	VERSION	I	Model select input.
27	KEY IN	I	CD control key input.
28	KEY IN	I	Amplifier control key input.
29	A/DVDD	–	A/D converter power suplly. (connect to VDD)
30	AVREF	–	A/D converter reference voltage input.
31	XT1	–	Sub system clock. (32.768kHz)
32	XT2	–	Sub system clock. (32.768kHz)
33	GND	–	GND.
34	X1	–	Main system clock. (5MHz)
35	X2	–	Main system clock. (5MHz)
36	STD IN	I	Data input from LC72130.
37	STD OUT	O	Data input from LC72130.
38	ST CLK	O	Clock outpu to LC72130.
39	ST CE	O	Latch outpu to LC72130.
40	DATA	O	Data output TC9210 (Electrical volume) and BU2092 (Serial/parallel).

Pin No.	Pin name	I/O	Description
41	CLOCK	O	Clock output TC9210 (Electrical volume) and BU2092 (Serial/parallel).
42	S-P LATCH	O	Latch output to BU2092.
43	VOL LATCH	O	Latch output to TC9210.
44	SCOR	I	Sub-cord sync SO + SI detection input.
45	SIRCS	I	SIRCS code input from remote commander.
46	AUB OUT	O	Audio Bus output.
47	AUB IN	I	Audio Bus input.
48	GND	–	GND.
49	TUNED	I	FM/AM tuning identification.
50	STEREO	I	FM stereo identification.
51	MUTE	O	Mute output.
52	V_{DD}	–	Power supply. (+5V)
53	PLAY LED	O	PLAY LED output.
54	P24	O	LCD drive.
55	P22		
56	P21, 23		
57	P20		
58	P19		
59	P18		
60	P17		
61	P16		
62	P15		
63	P14		
64	P13		
65	P12		
66	P11		
67	P10		
68	P9		
69	P8		
70	P7		
71	– 24V	–	LCD drive – 24V power supply.
72	P6	O	LCD drive.
73	P5		
74	P4		
75	P3		
76	P2		
77	P1		
78	PAUSE LED	O	PAUSE LED output.
79	9G	O	LCD drive.
80	8G		

SECTION 7
DIAGRAMS

• CIRCUIT BOARD LOCATION



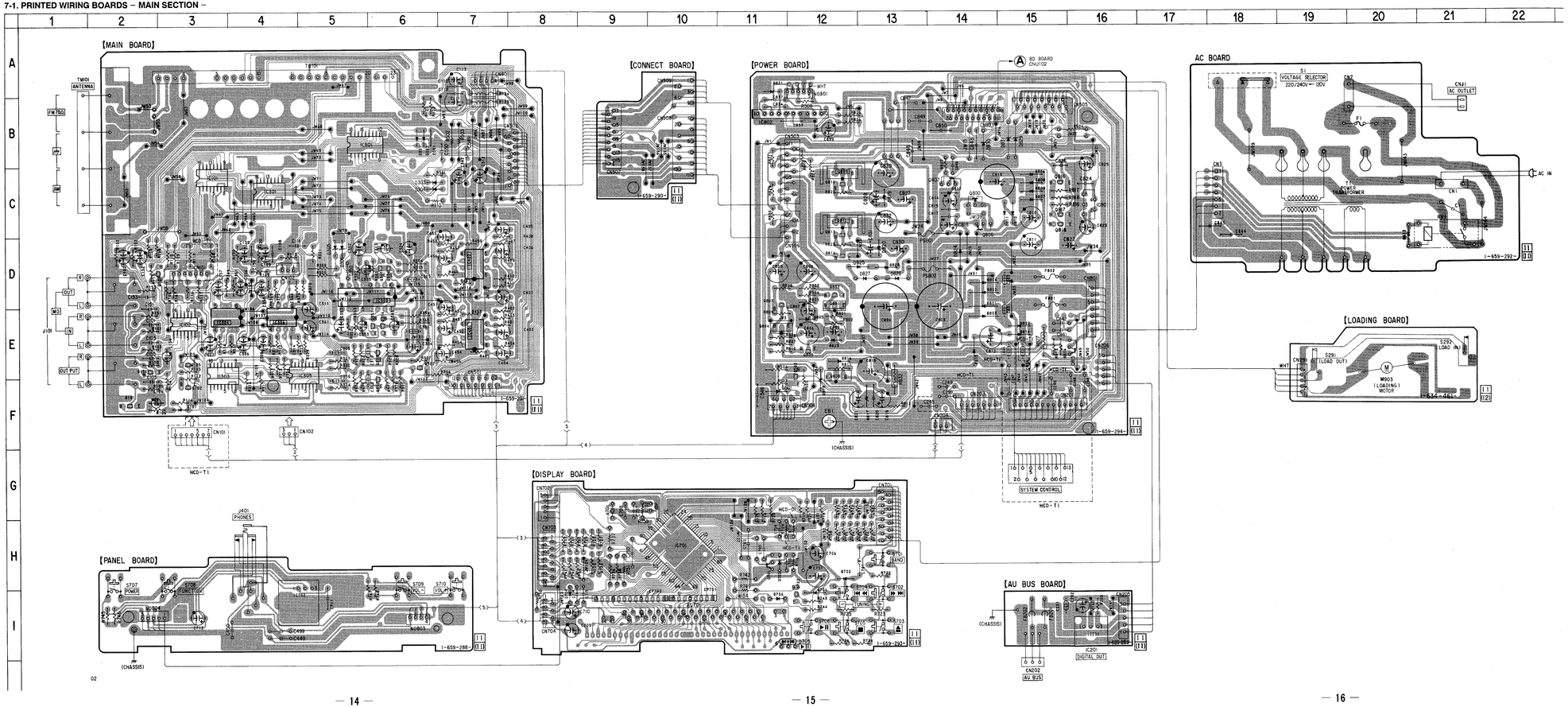
• SEMICONDUCTOR LOCATION

Ref. No.	Location	Ref. No.	Location
D101	F-3	IC301	C-4
D301	B-6	IC302	D-5
D302	B-6	IC303	E-3
D303	C-6	IC304	E-3
D304	C-6	IC305	E-5
D305	D-5	IC306	E-4
D306	D-5	IC401	E-7
D501	F-11	IC402	D-7
D701	I-12	IC501	B-5
D702	H-12	IC701	H-10
D703	H-11	IC702	H-5
D704	I-8	IC801	C-16
D705	I-11	IC802	B-12
D706	I-11		
D801	D-14		
		Q101	F-2
D802	D-14	Q102	F-3
D803	E-14	Q103	D-2
D804	D-14	Q105	E-3
D805	E-12	Q151	E-2
D806	C-15		
		Q301	D-6
D807	C-15	Q302	E-6
D808	C-15	Q303	E-6
D809	C-15	Q304	D-6
D810	C-15	Q351	E-6
D811	C-15		
		Q352	F-6
D812	C-14	Q354	E-6
D813	C-20	Q502	E-12
D814	E-15	Q701	H-11
D815	E-14	Q702	I-12
D816	E-12		
		Q800	C-14
D817	F-13	Q801	D-12
D818	F-12	Q802	D-12
D819	C-13	Q803	D-11
D820	D-13	Q804	E-11
D821	A-11		
		Q805	E-12
D822	E-15	Q808	C-14
D823	E-12	Q807	C-14
D824	D-14	Q808	E-12
D825	D-13	Q809	C-12
D826	D-13		
		Q810	C-12
D827	D-13	Q812	C-12
D828	D-13	Q813	C-12
D829	B-15	Q814	D-12
D830	B-14	Q815	E-16
D831	B-15		
		Q816	C-15
		Q817	C-15
IC101	C-3	Q818	C-15
IC102	E-3		
IC201	I-16		

Note:

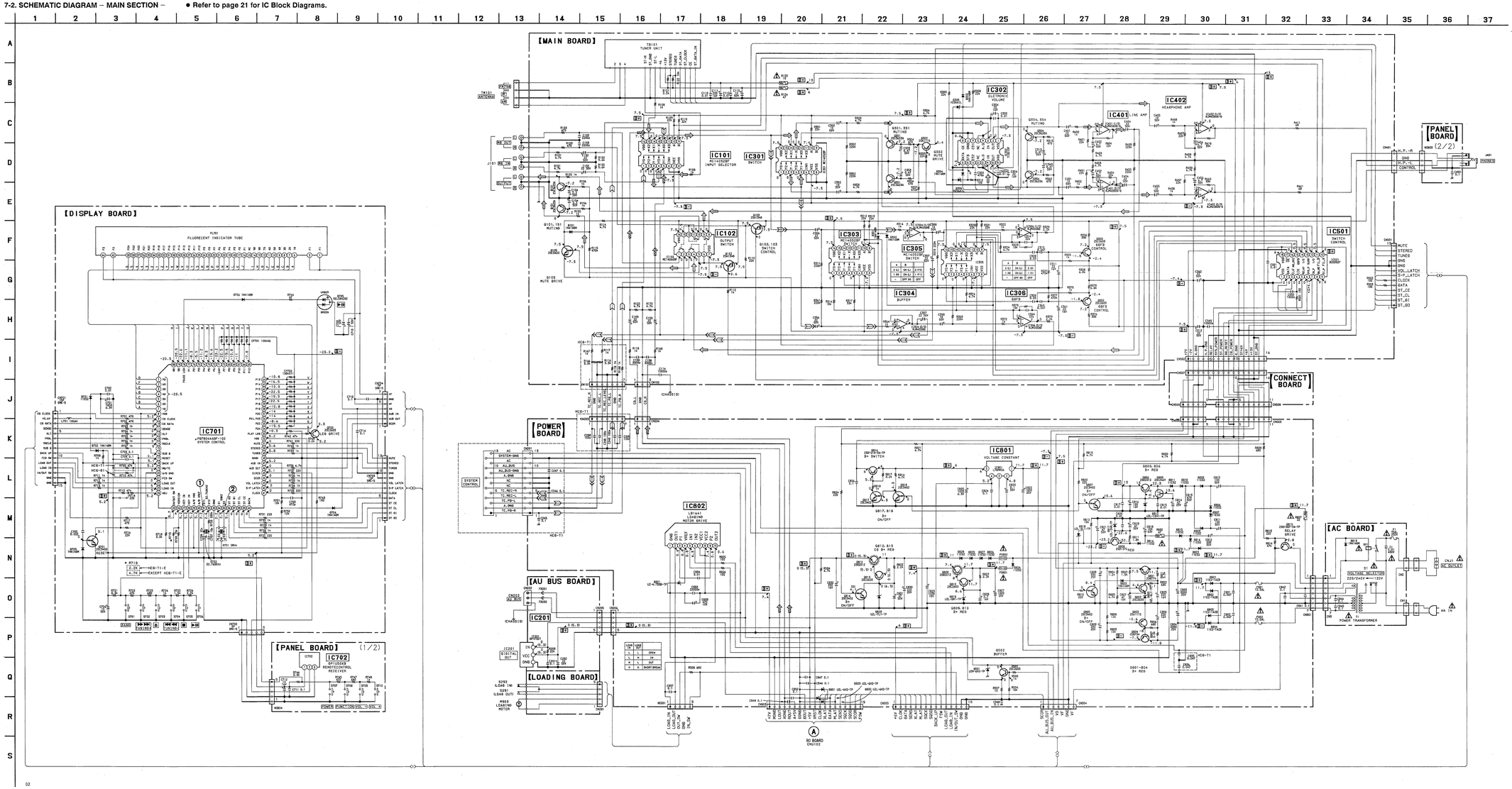
- ○— : parts extracted from the component side.
- ▒▒▒ : Pattern on the side which is seen.
- Abbreviation
  HK : Hong Kong
  SP : Singapore

7-1. PRINTED WIRING BOARDS – MAIN SECTION –



7-2. SCHEMATIC DIAGRAM – MAIN SECTION –

● Refer to page 21 for IC Block Diagrams.



● WAVEFORMS

① 3.2Vp-p, 32.768kHz, IC701 ㊸

② 5.9Vp-p, 5MHz, IC701 ㊹

Note :

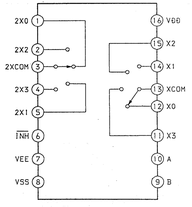
- All capacitors are in μ F unless otherwise noted. pF: μ μ F
  50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and ¼W or less unless otherwise specified.
- △ : internal component.
- : fusible resistor.

Note : The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

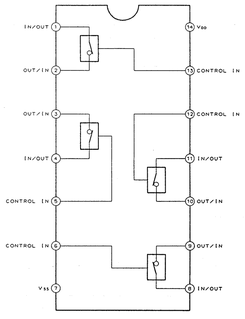
- B+ : B+ Line
- B− : B − Line
- Voltage and waveforms are dc with respect to ground under no-signal (detuned) conditions.
  no mark : FM
  ( ) : CD PLAY
- Voltages are taken with a VOM (Input impedance 10M Ω). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope. Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Signal path.
  ⇨ : FM ⇨ : PB
  ⇨ : CD ⇨ : REC
- Abbreviation
  HK : Hong Kong
  SP : Singapore

● IC BLOCK DIAGRAMS (MAIN SECTION)

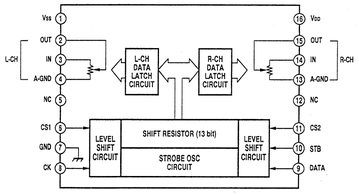
IC101, 301, 303, 305 MC14052BF



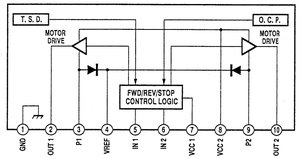
IC102 MC14066BF



IC302 TC9210P

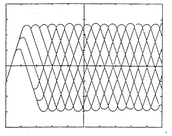


IC802 LB1641

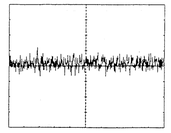


● WAVEFORMS

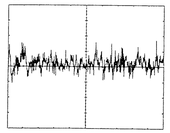
① IC101 ⑪pin 1.4Vp-p



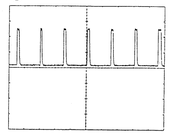
② IC101 ㉔pin 8mVp-p 0.2ms/DIV



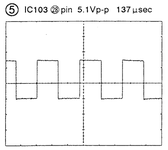
③ IC101 ②pin 20mVp-p 2ms/DIV



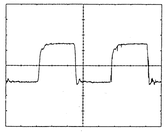
④ IC103 ③pin 2.4Vp-p 7.5µsec



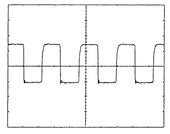
⑤ IC103 ㉚pin 5.1Vp-p 137µsec



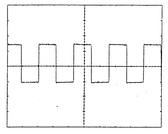
⑥ IC103 ㉟pin 5.1Vp-p 232.7nsec



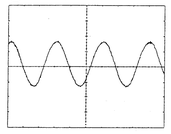
⑦ IC103 ㉜pin 5.1Vp-p 472.7nsec



⑧ IC103 ㉝pin 5.1Vp-p 23µsec



⑨ IC104 ⑤pin 3Vp-p 16.9344MHz



Note :

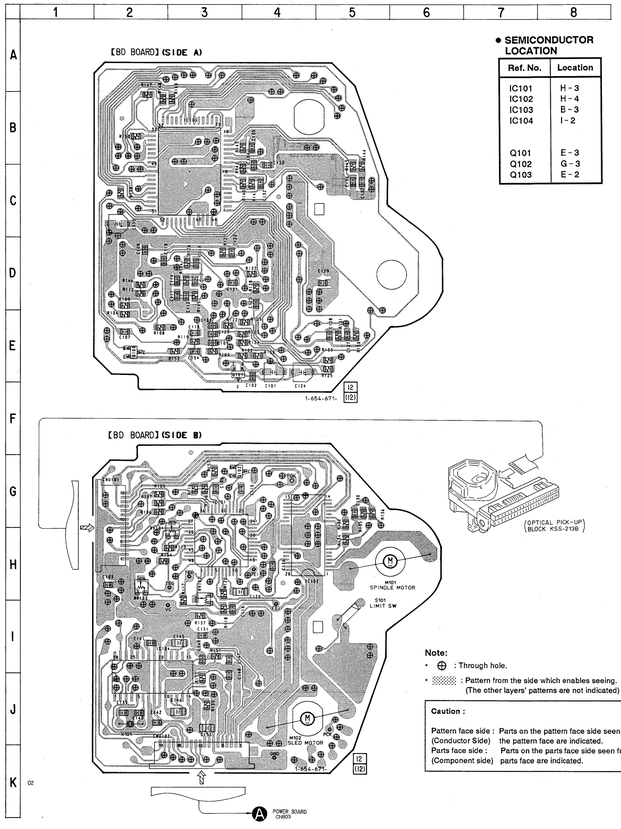
- All capacitors are in µF unless otherwise noted. pF: µµF 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and ¼W or less unless otherwise specified.
- △ : internal component.

Note : The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.

- B+ : B+ Line
- ▭ : adjustment for repair.

- Voltage and waveforms are dc with respect to ground under no-signal conditions.
  no mark : CD STOP
- Voltages are taken with a VOM (Input impedance 10M Ω). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope. Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Signal path.
  ⇨ : CD

7-3. PRINTED WIRING BOARDS – BD SECTION –



● SEMICONDUCTOR LOCATION

Ref. No.	Location
IC101	H - 3
IC102	H - 4
IC103	B - 3
IC104	I - 2
Q101	E - 3
Q102	G - 3
Q103	E - 2

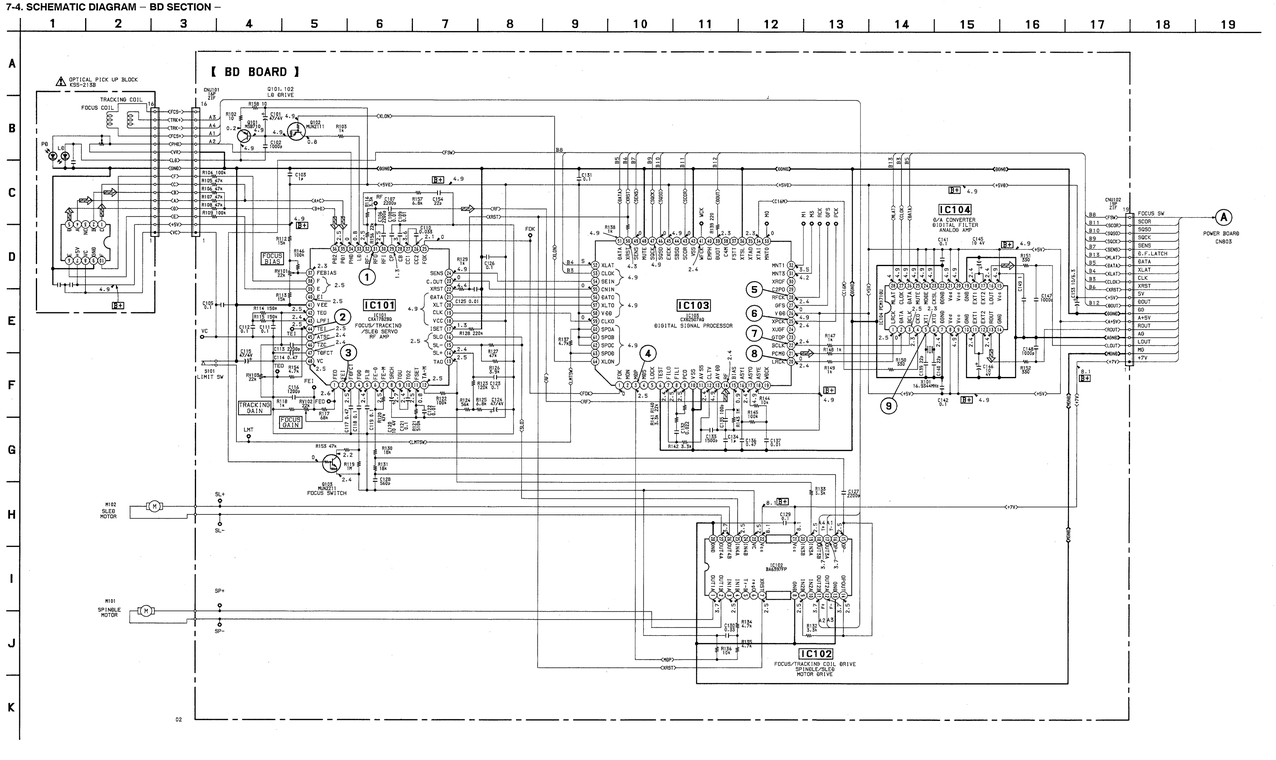
Note:

- ⊕ : Through hole.
- ▨ : Pattern from the side which enables seeing. (The other layers' patterns are not indicated)

Caution :

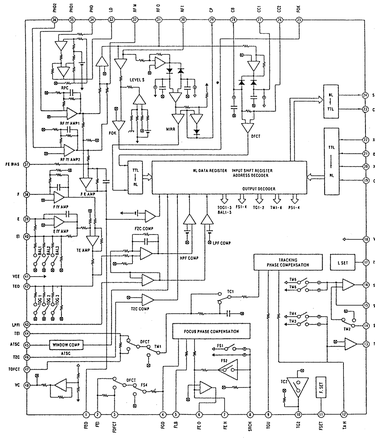
Pattern face side : Parts on the pattern face side seen from (Conductor Side) the pattern face are indicated.
Parts face side : Parts on the parts face side seen from the (Component side) parts face are indicated.

7-4. SCHEMATIC DIAGRAM – BD SECTION –

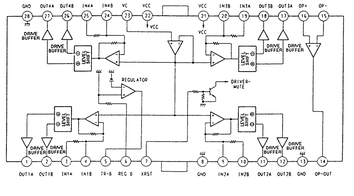


● IC BLOCK DIAGRAMS (BD SECTION)

IC101 CXA1782BQ



IC102 BA6397FP



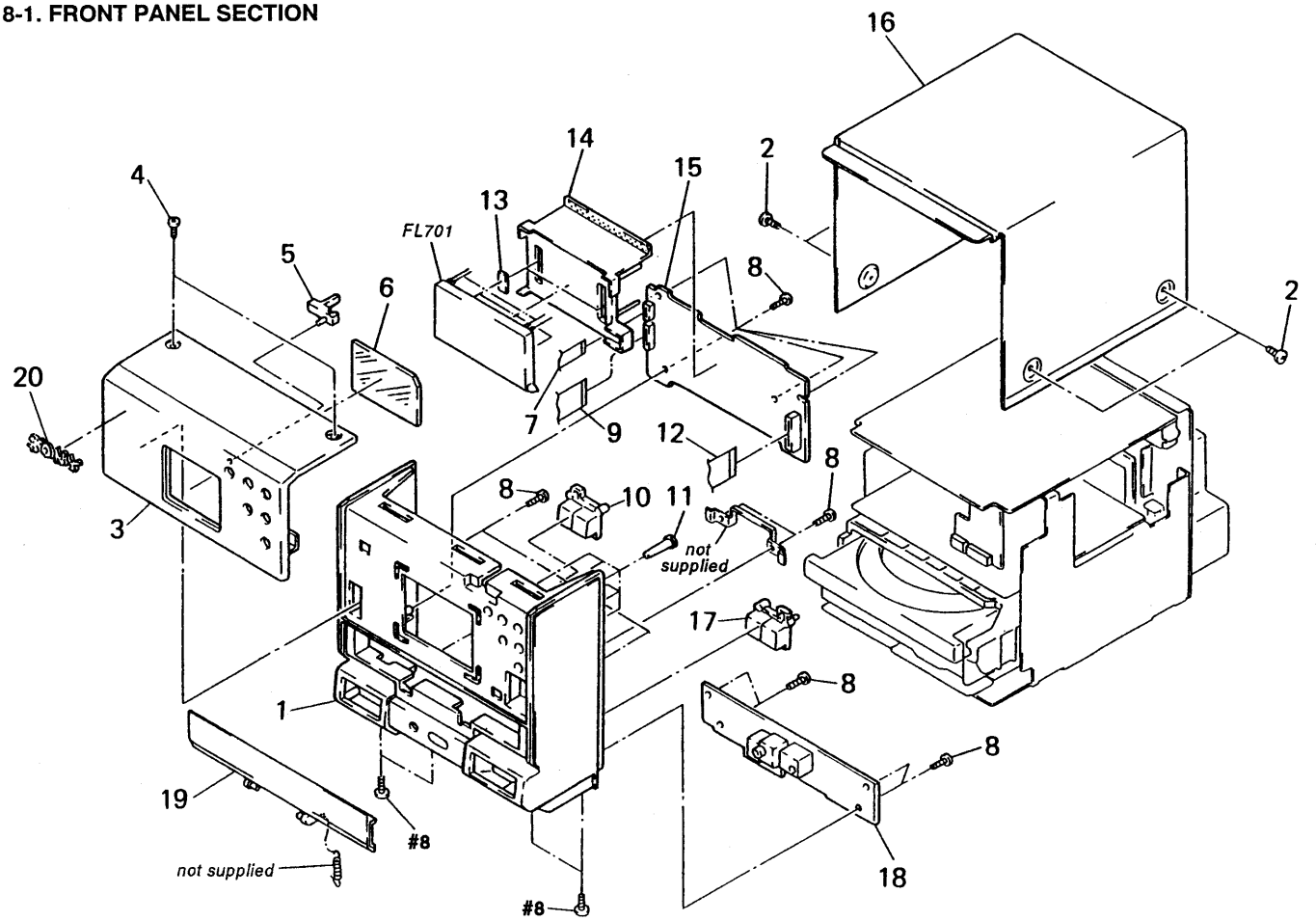
SECTION 8
EXPLODED VIEWS

NOTE :
- -XX, -X mean standardized parts, so they may have some difference from the original one.
- The construction parts of an assembled part are indicated with a collation number in the remark column.
- Items marked " * "are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.
- Hardware (# mark) list and accessories and packing materials are given in the last of this parts list.

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

- Abbreviation
  HK : Hong Kong
  SP : Singapore

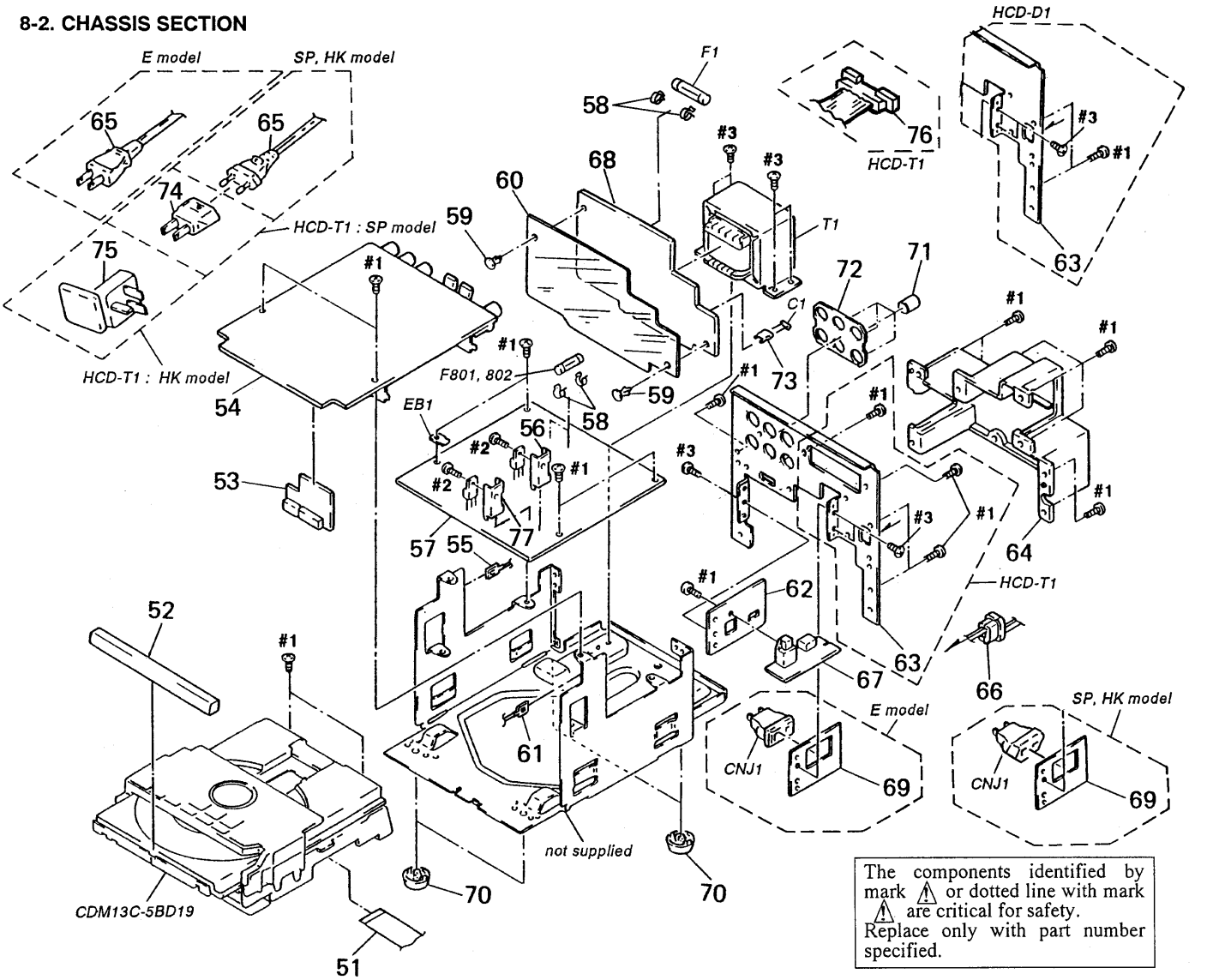
8-1. FRONT PANEL SECTION



Ref. No.	Part No.	Description	Remark
1	X-4946-207-1	PANEL SUB ASSY, FRONT	
2	3-704-366-61	SCREW (CASE)	
3	4-975-343-02	PANEL (AL), FRONT	
4	4-975-365-01	SCREW (ALUMINUM)	
5	4-975-346-01	INDICATOR (PLAY)	
6	4-975-345-01	PLATE (WINDOW), INDICATION	
7	1-775-731-11	WIRE (FLAT TYPE) (7 CORE)	
8	4-951-620-01	SCREW (2.6×8), +BVTP	
9	1-775-732-11	WIRE (FLAT TYPE) (13 CORE)	
10	4-975-351-01	BUTTON (POWER)	
11	4-975-355-01	BUTTON (PLAY)	
12	1-775-733-11	WIRE (FLAT TYPE) (15 CORE)	

Ref. No.	Part No.	Description	Remark
* 13	4-932-810-11	CUSHION (FL)	
* 14	4-975-363-02	HOLDER (FL TUBE)	
* 15	A-4378-477-A	DISPLAY BOARD, COMPLET (HCD-T1:E)	
* 15	A-4378-886-A	DISPLAY BOARD, COMPLETE (HCD-D1)	
* 15	A-4378-911-A	DISPLAY BOARD, COMPLETE (HCD-T1:HK, SP)	
16	4-975-358-11	CASE	
17	4-975-352-01	BUTTON (VOLUME)	
* 18	1-659-288-11	PANEL BOARD	
19	X-4946-431-1	DOOR ASSY	
20	4-942-636-21	EMBLEM (NO. 3.5), SONY	
FL701	1-517-441-11	INDICATOR TUBE, FLUORESCENT	

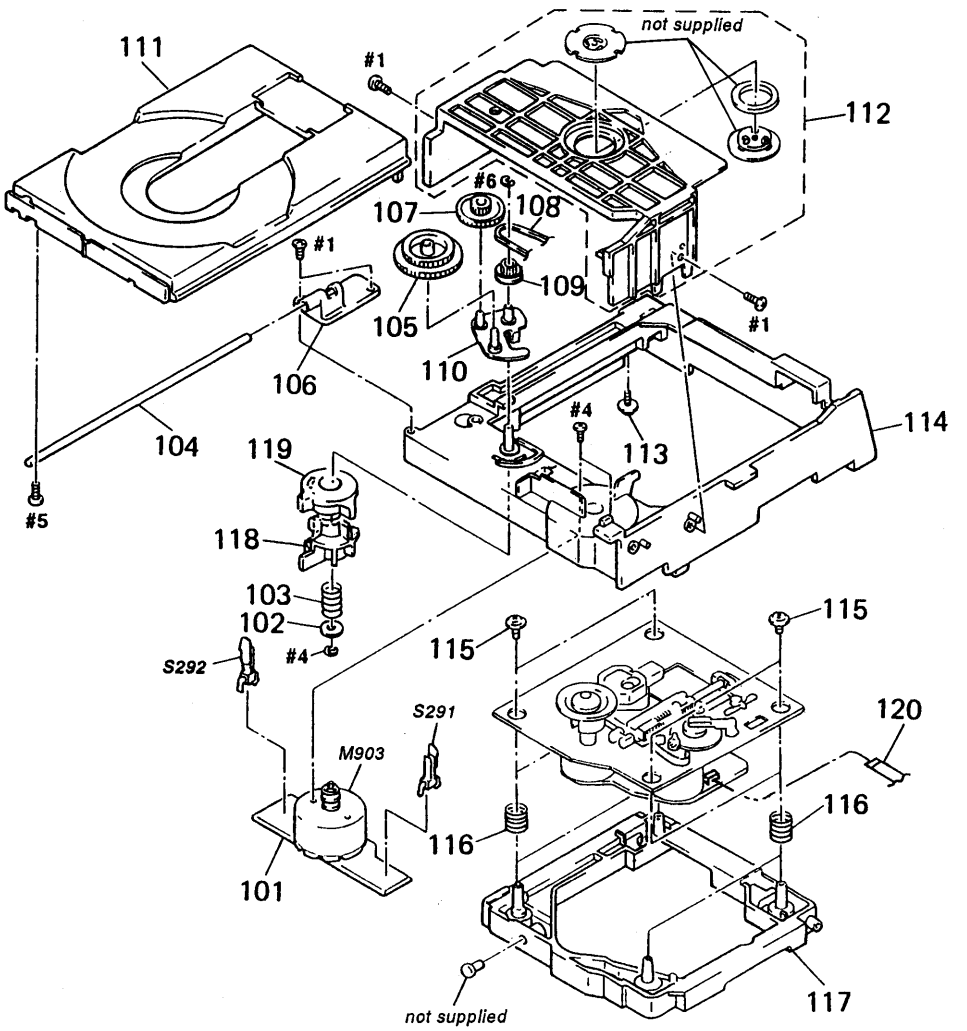
8-2. CHASSIS SECTION



Ref. No.	Part No.	Description	Remark
51	1-775-172-11	WIRE (FLAT TYPE) (19 CORE)	
* 52	4-975-356-01	PANEL, LOADING	
* 53	1-659-290-11	CONNECT BOARD	
* 54	A-4378-475-A	MAIN BOARD, COMPLETE (HCD-T1)	
* 54	A-4378-885-A	MAIN BOARD, COMPLETE (HCD-D1)	
* 55	1-690-880-31	LEAD (WITH CONNECTOR)	
* 56	3-309-144-21	HEAT SINK	
* 57	A-4378-887-A	POWER BOARD, COMPLETE (HCD-D1)	
* 57	A-4378-912-A	POWER BOARD, COMPLETE (HCD-T1)	
58	1-533-293-11	FUSE HOLDER	
59	3-531-576-11	RIVET	
60	4-979-539-01	SHEET (TRANSFORMER)	
61	1-690-880-51	LEAD (WITH CONNECTOR)	
* 62	4-975-361-11	PANEL (AU BASS), BACK	
* 63	4-975-359-22	PANEL (MAIN), BACK (HCD-T1)	
* 63	4-975-359-32	PANEL (MAIN), BACK (HCD-D1)	
* 64	4-975-362-01	COVER (BACK PANEL)	
⚠65	1-558-943-71	CORD, POWER (HCD-T1:E)	
⚠65	1-776-060-11	CORD, POWER (EXCEPT HCD-T1:E)	
* 66	3-703-244-00	BUSHING (2104), CORD (EXCEPT HCD-T1:E)	
* 66	3-703-571-11	BUSHING (S) (4516), CORD (HCD-T1:E)	

Ref. No.	Part No.	Description	Remark
* 67	1-659-289-11	AU BUS BOARD	
* 68	1-659-292-11	AC BOARD	
* 69	4-975-360-11	PANEL (AC OUTLET), BACK	(EXCEPT HCD-T1:E)
* 69	4-975-360-21	PANEL (AC OUTLET), BACK (HCD-T1:E)	
70	4-965-822-01	FOOT	
* 71	4-977-364-01	COVER (PIN JACK 2P)	
72	4-975-903-01	PLATE (PIN JACK 6P) INDCATION	
* 73	4-875-455-31	COVER (DIA. 20), CAPACITOR	
⚠74	1-569-008-11	ADAPTER, CONVERSION 2P (HCD-T1:SP)	
⚠75	1-770-019-11	ADAPTOR, CONVERSION PLUG 3P (HCD-T1:HK)	
76	1-775-378-11	CORD (WITH CONNECTOR) (SYSTEM CONTROL)	(HCD-T1)
* 77	4-035-555-01	HEAT, SINK	
⚠C1	1-161-744-00	CERAMIC 0.01uF	400V
⚠CNJ1	1-526-794-11	OUTLET, AC (EXCEPT HCD-T1:E))	
⚠CNJ1	1-526-882-00	OUTLET, AC (HCD-T1:E)	
EB1	1-537-771-21	TERMINAL BOARD, GROUND	
⚠F1	1-532-299-00	FUSE (T5AL 250V)	
⚠F801	1-532-286-00	FUSE (T2.5AL 250V)	
⚠F802	1-532-286-00	FUSE (T2.5AL 250V)	
⚠T1	1-429-096-11	TRANSFORMER, POWER	

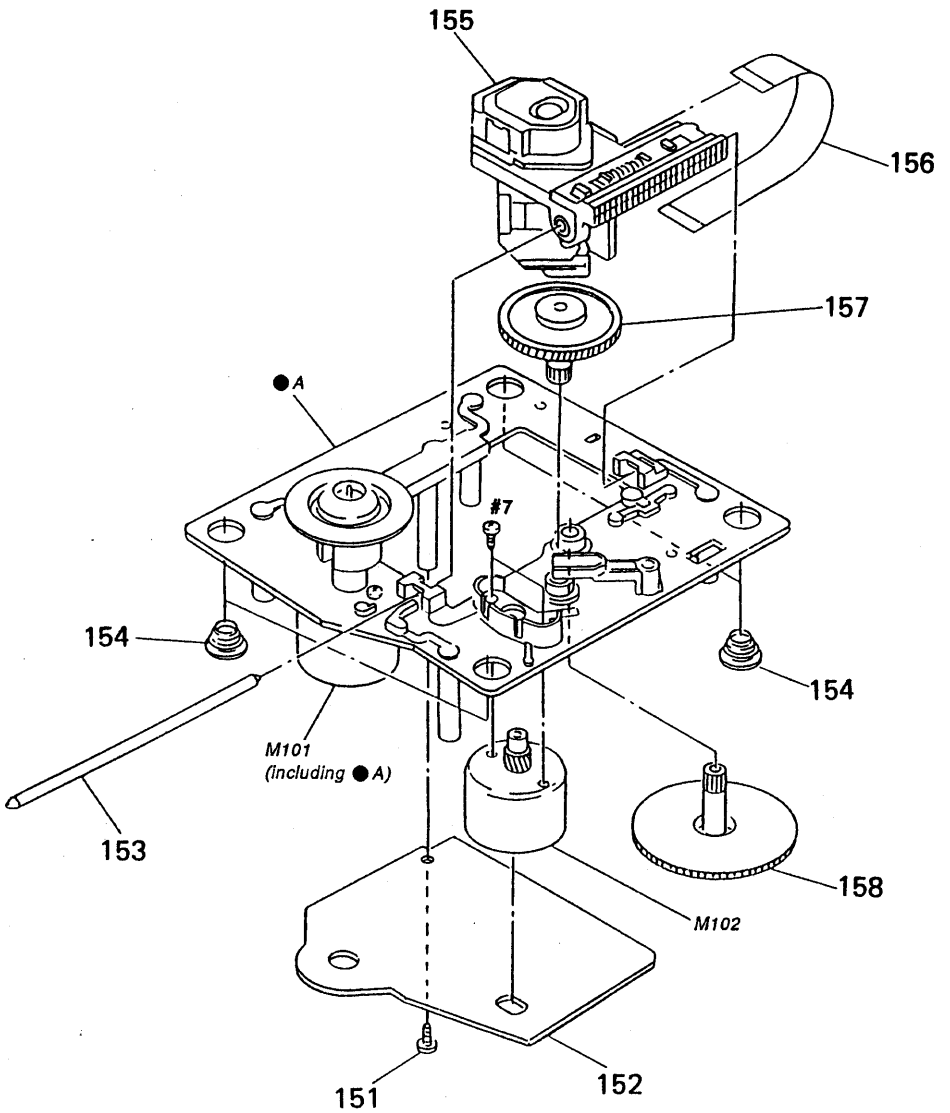
8-3. MECHANISM SECTION-1 (CDM13C-5BD19)



Ref. No.	Part No.	Description	Remark
* 101	1-634-461-11	LOADING BOARD	
102	4-927-654-01	WASHER (LIMITER)	
103	3-659-338-00	SPRING, COMPRESSION	
104	4-929-764-01	SHAFT (TABLE GUIDE)	
105	4-927-620-01	GEAR (P)	
106	4-944-006-11	BEARING	
107	4-927-628-01	GEAR (C)	
108	4-927-649-01	BELT	
109	4-929-724-01	PULLEY (B)	
110	X-4929-703-1	ARM ASSY, SWING	
111	4-944-012-01	TABLE, DISC	
112	A-4604-752-A	HOLDER (MG) ASSY	

Ref. No.	Part No.	Description	Remark
* 113	4-917-583-21	BRACKET, YOKE	
* 114	X-4946-208-1	CHASSIS (MD) ASSY	
115	4-933-134-01	SCREW (+PTPWH M2.6×6)	
116	4-958-593-01	SPRING (BU), COMPRESSION	
117	4-929-747-01	HOLDER (BU)	
118	4-929-727-01	CAM (A)	
119	4-929-729-01	CAM (B)	
120	1-775-172-11	WIRE, FLAT TYPE (19 CORE)	
M903	A-4608-362-A	MOTOR (L) ASSY (LOADING)	
S291	1-571-924-11	SWITCH, LEAF (LOAD OUT)	
S292	1-571-924-11	SWITCH, LEAF (LOAD IN)	

8-4. MECHANISM SECTION-2 (BU-5BD19)



The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Ref. No.	Part No.	Description	Remark
151	4-951-620-01	SCREW (2.6×8), +BVTP	
152	A-4673-402-A	BD BOARD, COMPLETE	
153	4-917-565-01	SHAFT, SLED	
154	4-951-940-01	INSULATOR (BU)	
⚠155	8-848-367-11	OPTICAL PICK-UP KSS-213B/K-N	

Ref. No.	Part No.	Description	Remark
156	1-769-069-11	WIRE (FLAT TYPE) (16 CORE)	
157	4-917-567-01	GEAR (M)	
158	4-917-564-01	GEAR (P), FLATNESS	
M101	X-4917-523-4	BASE (OUTSERT) ASSY (SPINDLE)	
M102	X-4917-504-1	MOTOR ASSY (SLED)	

SECTION 9
ELECTRICAL PARTS LIST

AC **AU BUS** **BD**

NOTE :
- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX, -X mean standardized parts, so they may have some difference from the original one.
- RESISTORS
  All resistors are in ohms
  METAL : Metal-film resistor
  METAL OXIDE : Metal oxide-film resistor
  F : nonflammable
- Items marked " * "are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- SEMICONDUCTORS
  In each case, u : μ , for example :
  uA.... : μ A.... , uPA.... : μ PA....
  uPB.... : μ PB.... , uPC.... : μ PC....
  uPD.... : μ PD....
- CAPACITORS
  uF : μ F
- COILS
  uH : μ H

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

When indicating parts by reference number, please include the board.

- Abbreviation
  HK : Hong Kong
  SP : Singapore

Ref.No.	Part No.	Description			Remark
*	1-659-292-11	AC BOARD			
		********			
	1-533-293-11	FUSE HOLDER			
		< CAPACITOR >			
⚠C1	1-161-744-00	CERAMIC	0.01uF		400V
C844	1-164-159-11	CERAMIC	0.1uF		50V
C845	1-164-159-11	CERAMIC	0.1uF		50V
		< CONNECTOR >			
* CN1	1-580-230-31	PIN, CONNECTOR (PC BOARD) 2P			
CN2	1-564-321-00	PIN, CONNECTOR 2P			
* CN3	1-564-522-11	PLUG, CONNECTOR 7P			
		< DIODE >			
D813	8-719-987-63	DIODE 1N4148M			
		< RELAY >			
⚠RY1	1-755-018-11	RELAY			
		< SWITCH >			
⚠S1	1-572-675-11	SWITCH, POWER VOLTAGE CHANGE (VOLTAGE SELECTOR)			
**********					
*	1-659-289-11	AU BUS BOARD			
		**********			
*	1-690-880-31	LEAD (WITH CONNECTOR)			
		< CAPACITOR >			
C201	1-136-165-00	FILM	0.1uF	5%	50V
C202	1-126-965-11	ELECT	22uF	20%	50V
		< CONNECTOR >			
* CN202	1-565-561-11	PIN, CONNECTOR 3P (AU BUS)			
* CN205	1-564-508-11	PLUG, CONNECTOR 5P			

Ref.No.	Part No.	Description			Remark
		< FERRITE BEAD >			
FB201	1-412-473-21	INDUCTOR	UH		
FB202	1-412-473-21	INDUCTOR	UH		
		< IC >			
IC201	8-749-921-12	IC GP1F32T (DIGITAL OUT)			
		< RESISTOR >			
R203	1-249-433-11	CARBON	22K	5% 1/4W	
**********					
	A-4673-402-A	BD BOARD, COMPLETE			
		**********			
		< CAPACITOR >			
C101	1-126-607-11	ELECT CHIP	47uF	20%	4V
C102	1-163-275-11	CERAMIC CHIP	0.001uF	5%	50V
C103	1-164-346-11	CERAMIC CHIP	1uF		16V
C105	1-163-038-91	CERAMIC CHIP	0.1uF		25V
C106	1-164-695-11	CERAMIC CHIP	0.0022uF	5%	50V
C107	1-164-695-11	CERAMIC CHIP	0.0022uF	5%	50V
C108	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C109	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C110	1-163-989-11	CERAMIC CHIP	0.033uF	10%	25V
C111	1-163-038-91	CERAMIC CHIP	0.1uF		25V
C112	1-163-038-91	CERAMIC CHIP	0.1uF		25V
C113	1-164-695-11	CERAMIC CHIP	0.0022uF	5%	50V
C114	1-164-005-11	CERAMIC CHIP	0.47uF		25V
C115	1-126-607-11	ELECT CHIP	47uF	20%	4V
C116	1-163-143-00	CERAMIC CHIP	0.0012uF	5%	50V
C117	1-164-005-11	CERAMIC CHIP	0.47uF		25V
C118	1-163-038-91	CERAMIC CHIP	0.1uF		25V
C119	1-163-038-91	CERAMIC CHIP	0.1uF		25V
C120	1-135-201-11	TANTALUM CHIP	10uF	20%	4V
C121	1-163-038-91	CERAMIC CHIP	0.1uF		25V
C122	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C123	1-163-038-91	CERAMIC CHIP	0.1uF		25V

BD

Ref. No.	Part No.	Description			Remark
C124	1-126-607-11	ELECT CHIP	47uF	20%	4V
C125	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C126	1-163-038-91	CERAMIC CHIP	0.1uF		25V
C127	1-164-695-11	CERAMIC CHIP	0.0022uF	5%	50V
C128	1-163-135-00	CERAMIC CHIP	560PF	5%	50V
C129	1-163-038-91	CERAMIC CHIP	0.1uF		25V
C130	1-164-336-11	CERAMIC CHIP	0.33uF		25V
C131	1-163-038-91	CERAMIC CHIP	0.1uF		25V
C132	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V
C133	1-163-145-00	CERAMIC CHIP	0.0015uF	5%	50V
C134	1-164-346-11	CERAMIC CHIP	1uF		16V
C135	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C136	1-164-005-11	CERAMIC CHIP	0.47uF		25V
C137	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C139	1-163-235-11	CERAMIC CHIP	22PF	5%	50V
C140	1-163-235-11	CERAMIC CHIP	22PF	5%	50V
C141	1-163-038-91	CERAMIC CHIP	0.1uF		25V
C142	1-163-038-91	CERAMIC CHIP	0.1uF		25V
C145	1-135-201-11	TANTALUM CHIP	10uF	20%	4V
C146	1-135-201-11	TANTALUM CHIP	10uF	20%	4V
C147	1-163-275-11	CERAMIC CHIP	0.001uF	5%	50V
C148	1-163-275-11	CERAMIC CHIP	0.001uF	5%	50V
C149	1-164-346-11	CERAMIC CHIP	1uF		16V
C153	1-135-259-11	TANTAL. CHIP	10uF	20%	6.3V
C154	1-163-235-11	CERAMIC CHIP	22PF	5%	50V
		< CONNECTOR >			
CNU101	1-770-014-11	CONNECTOR, FFC/FPC 16P			
CNU102	1-770-013-11	CONNECTOR, FFC/FPC 19P			
		< IC >			
IC101	8-752-069-56	IC CXA1782BQ			
IC102	8-759-291-06	IC BA6397FP			
IC103	8-752-372-94	IC CXD2507AQ			
IC104	8-759-185-29	IC PCM1710U-B			
		< TRANSISTOR >			
Q101	8-729-010-08	TRANSISTOR MSB710-R			
Q102	8-729-424-08	TRANSISTOR UN2111			
Q103	8-729-421-22	TRANSISTOR UN2211			
		< RESISTOR >			
R102	1-216-001-00	METAL CHIP	10	5%	1/10W
R103	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R104	1-216-097-91	METAL GLAZE	100K	5%	1/10W
R105-108					
	1-216-089-91	METAL GLAZE	47K	5%	1/10W
R109	1-216-097-91	METAL GLAZE	100K	5%	1/10W
R112	1-216-077-00	METAL CHIP	15K	5%	1/10W
R113	1-216-077-00	METAL CHIP	15K	5%	1/10W
R114	1-216-101-00	METAL CHIP	150K	5%	1/10W
R115	1-216-101-00	METAL CHIP	150K	5%	1/10W
R116	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R117	1-216-093-00	METAL CHIP	68K	5%	1/10W
R118	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R119	1-216-121-91	METAL GLAZE	1M	5%	1/10W
R120	1-216-089-91	METAL GLAZE	47K	5%	1/10W
R121	1-216-114-00	METAL GLAZE	510K	5%	1/10W
R122	1-216-097-91	METAL GLAZE	100K	5%	1/10W
R123	1-216-099-00	METAL CHIP	120K	5%	1/10W
R124	1-216-091-00	METAL CHIP	56K	5%	1/10W
R125	1-216-069-00	METAL CHIP	6.8K	5%	1/10W
R126	1-216-063-91	METAL GLAZE	3.9K	5%	1/10W
R127	1-216-089-91	METAL GLAZE	47K	5%	1/10W
R128	1-216-105-91	METAL GLAZE	220K	5%	1/10W
R129	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R130	1-216-079-00	METAL CHIP	18K	5%	1/10W
R131	1-216-079-00	METAL CHIP	18K	5%	1/10W
R132	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R133	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R134	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R135	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R136	1-216-073-00	METAL CHIP	10K	5%	1/10W
R137	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R138	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R139	1-216-033-00	METAL CHIP	220	5%	1/10W
R140	1-216-081-00	METAL CHIP	22K	5%	1/10W
R141	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R142	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R143	1-216-121-91	METAL GLAZE	1M	5%	1/10W
R144	1-216-073-00	METAL CHIP	10K	5%	1/10W
R145	1-216-097-91	METAL GLAZE	100K	5%	1/10W
R146	1-216-097-91	METAL GLAZE	100K	5%	1/10W
R147-149					
	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R150-152					
	1-216-037-00	METAL CHIP	330	5%	1/10W
R153	1-216-089-91	METAL GLAZE	47K	5%	1/10W
R154	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R156	1-216-081-00	METAL CHIP	22K	5%	1/10W
R157	1-216-069-00	METAL CHIP	6.8K	5%	1/10W
R158	1-216-001-00	METAL CHIP	10	5%	1/10W
		< VARIABLE RESISTOR >			
RV101	1-241-396-11	RES, ADJ, METAL GLAZE 22K (FOCUS BIAS)			
RV102	1-241-396-11	RES, ADJ, METAL GLAZE 22K (FOCUS GAIN)			
RV103	1-241-396-11	RES, ADJ, METAL GLAZE 22K (TRAKING GAIN)			

Ref. No.	Part No.	Description			Remark
		< SWITCH >			
S101	1-572-085-11	SWITCH, LEAF (LIMIT)			
		< VIBRATOR >			
X101	1-579-280-11	VIBRATOR, CRYSTAL (16.9344MHz)			
**********					
*	1-659-290-11	CONNECT BOARD			
		**********			
		< CONNECTOR >			
CN507	1-750-189-11	CONNECTOR, BOARD TO BOARD 16P			
CN508	1-695-094-11	SOCKET, CONNECTOR 11P			
CN509	1-750-179-11	SOCKET, CONNECTOR 5P			
**********					
*	A-4378-477-A	DISPLAY BOARD, COMPLETE (HCD-T1:E)			
*	A-4378-886-A	DISPLAY BOARD, COMPLETE (HCD-D1)			
*	A-4378-911-A	DISPLAY BOARD, COMPLETE (HCD-T1:HK, SP, MY, EA, MX)			
		**********			
		< CAPACITOR >			
C701	1-126-916-11	ELECT	1000uF	20%	6.3V
C702	1-162-306-11	CERAMIC	0.01uF	30%	16V
C703	1-164-159-11	CERAMIC	0.1uF		50V
C704	1-164-159-11	CERAMIC	0.1uF		50V
C705	1-161-494-00	CERAMIC	0.022uF		25V
C706	1-124-907-11	ELECT	10uF	20%	50V
C707	1-102-953-00	CERAMIC	18PF	5%	50V
C708	1-102-959-00	CERAMIC	22PF	5%	50V
C709	1-124-903-11	ELECT	1uF	20%	50V
C710	1-124-903-11	ELECT	1uF	20%	50V
C714	1-164-159-11	CERAMIC	0.1uF		50V
C715	1-164-159-11	CERAMIC	0.1uF		50V
C750	1-162-290-31	CERAMIC	470PF	10%	50V
		< CONNECTOR >			
* CN701	1-568-834-11	SOCKET, CONNECTOR 15P			
* CN702	1-568-954-11	PIN, CONNECTOR 5P			
* CN703	1-568-832-11	SOCKET, CONNECTOR 13P			
* CN704	1-568-826-11	SOCKET, CONNECTOR 7P			
		< COMPOSITION CIRCUIT BLOCK >			
CP701	1-232-881-11	COMPOSITION CIRCUIT BLOCK			
CP702	1-239-054-11	COMPOSITION CIRCUIT BLOCK			
		< DIODE >			
D701	8-719-200-82	DIODE 11ES2			

Ref. No.	Part No.	Description			Remark
D702-704					
	8-719-987-63	DIODE 1N4148M			
D705	8-719-052-22	LED SEL5842OC-TP (▶II)			
D706	8-719-987-63	DIODE 1N4148M			
		< INDICATOR TUBE >			
FL701	1-517-441-11	INDICATOR TUBE, FLUORESCENT			
		< IC >			
IC701	8-759-346-40	IC uPD78044AGF-102-3B9			
		< COIL >			
L701	1-410-521-11	INDUCTOR	100uH		
		< TRANSISTOR >			
Q701	8-729-900-36	TRANSISTOR DTC124ES			
Q702	8-729-620-05	TRANSISTOR 2SC2603-EF			
		< RESISTOR >			
R701	1-249-413-11	CARBON	470	5%	1/4W
R702	1-249-413-11	CARBON	470	5%	1/4W
R703-708					
	1-249-417-11	CARBON	1K	5%	1/4W
R709	1-249-437-11	CARBON	47K	5%	1/4W (HCD-T1)
R710	1-249-437-11	CARBON	47K	5%	1/4W (HCD-D1)
R711-713					
	1-249-417-11	CARBON	1K	5%	1/4W
R714	1-249-409-11	CARBON	220	5%	1/4W
R715	1-249-437-11	CARBON	47K	5%	1/4W
R716	1-249-433-11	CARBON	22K	5%	1/4W
R717	1-249-413-11	CARBON	470	5%	1/4W
R718	1-249-423-11	CARBON	3.3K	5%	1/4W
R719	1-249-425-11	CARBON	4.7K	5%	1/4W (EXCEPT E)
R719	1-249-421-11	CARBON	2.2K	5%	1/4W (E)
R720	1-249-431-11	CARBON	15K	5%	1/4W
R721	1-249-423-11	CARBON	3.3K	5%	1/4W
R722	1-249-413-11	CARBON	470	5%	1/4W
R723	1-249-415-11	CARBON	680	5%	1/4W
R724	1-249-417-11	CARBON	1K	5%	1/4W
R725	1-249-419-11	CARBON	1.5K	5%	1/4W
R726	1-249-421-11	CARBON	2.2K	5%	1/4W
R727	1-249-409-11	CARBON	220	5%	1/4W
R728-730					
	1-249-417-11	CARBON	1K	5%	1/4W
R731	1-249-409-11	CARBON	220	5%	1/4W
R732	1-249-429-11	CARBON	10K	5%	1/4W
R733	1-249-409-11	CARBON	220	5%	1/4W

DISPLAY | LOADING | MAIN

Ref. No.	Part No.	Description			Remark
R734-736					
	1-249-417-11	CARBON	1K	5%	1/4W
R737	1-249-409-11	CARBON	220	5%	1/4W
R738	1-249-425-11	CARBON	4.7K	5%	1/4W
R739	1-249-417-11	CARBON	1K	5%	1/4W
R740	1-249-417-11	CARBON	1K	5%	1/4W
R741	1-249-409-11	CARBON	220	5%	1/4W
R742	1-249-437-11	CARBON	47K	5%	1/4W
R743	1-247-807-31	CARBON	100	5%	1/4W
R744	1-249-401-11	CARBON	47	5%	1/4W
R749	1-249-421-11	CARBON	2.2K	5%	1/4W
R750	1-247-891-00	CARBON	330K	5%	1/4W
R751	1-249-429-11	CARBON	10K	5%	1/4W
		< SWITCH >			
S701	1-554-303-21	SWITCH, TACTILE (BAND)			
S702	1-554-303-21	SWITCH, TACTILE (▶▶ ⏭ TUNING +)			
S703	1-554-303-21	SWITCH, TACTILE (⏏)			
S704	1-554-303-21	SWITCH, TACTILE (⏮ ◀◀ TUNING -)			
S705	1-554-303-21	SWITCH, TACTILE (■)			
S706	1-554-303-21	SWITCH, TACTILE (▶II)			
		< VIBRATOR >			
X701	1-579-233-11	VIBRATOR, CERAMIC (5MHz)			
X702	1-567-098-41	VIBRATOR, CRYSTAL (32.768kHz)			
**********					
*	1-634-461-11	LOADING BOARD			
		**********			
		< CONNECTOR >			
* CN291	1-564-498-11	PIN, CONNECTOR 5P			
		< SWITCH >			
S291	1-571-924-11	SWITCH, LEAF (LOAD OUT)			
S292	1-571-924-11	SWITCH, LEAF (LOAD IN)			
**********					
*	A-4378-885-A	MAIN BOARD, COMPLETE (HCD-D1)			
*	A-4378-475-A	MAIN BOARD, COMPLETE (HCD-T1)			
		**********			
		< CAPACITOR >			
C102	1-126-965-11	ELECT	22uF	20%	50V
C104	1-124-257-00	ELECT	2.2uF	20%	50V
C108	1-162-303-11	CERAMIC	0.0033uF	20%	16V
C109	1-126-965-11	ELECT	22uF	20%	50V
C110	1-162-306-11	CERAMIC	0.01uF	30%	16V
C111	1-124-120-11	ELECT	220uF	20%	25V
C112	1-162-306-11	CERAMIC	0.01uF	30%	16V
C113	1-124-907-11	ELECT	10uF	20%	50V
C114	1-162-306-11	CERAMIC	0.01uF	30%	16V
C152	1-126-965-11	ELECT	22uF	20%	50V
C154	1-124-257-00	ELECT	2.2uF	20%	50V
C158	1-162-303-11	CERAMIC	0.0033uF	20%	16V
C159	1-126-965-11	ELECT	22uF	20%	50V
C302	1-124-907-11	ELECT	10uF	20%	50V
C303	1-124-465-00	ELECT	0.47uF	20%	50V
C304	1-124-234-00	ELECT	22uF	20%	16V
C305	1-137-370-11	FILM	0.01uF	5%	50V
C306	1-126-965-11	ELECT	22uF	20%	50V
C307	1-126-965-11	ELECT	22uF	20%	50V
C308	1-124-907-11	ELECT	10uF	20%	50V
C309	1-136-171-00	FILM	0.33uF	5%	50V
C310	1-137-374-11	FILM	0.047uF	5%	50V
C311	1-124-234-00	ELECT	22uF	20%	16V
C312	1-126-965-11	ELECT	22uF	20%	50V
C313	1-124-465-00	ELECT	0.47uF	20%	50V
C314	1-162-207-31	CERAMIC	22PF	5%	50V
C350	1-162-290-31	CERAMIC	470PF	10%	50V
C352	1-124-907-11	ELECT	10uF	20%	50V
C353	1-124-465-00	ELECT	0.47uF	20%	50V
C354	1-124-234-00	ELECT	22uF	20%	16V
C355	1-137-370-11	FILM	0.01uF	5%	50V
C356	1-126-965-11	ELECT	22uF	20%	50V
C357	1-126-965-11	ELECT	22uF	20%	50V
C358	1-124-907-11	ELECT	10uF	20%	50V
C359	1-136-171-00	FILM	0.33uF	5%	50V
C360	1-137-374-11	FILM	0.047uF	5%	50V
C361	1-124-234-00	ELECT	22uF	20%	16V
C362	1-126-965-11	ELECT	22uF	20%	50V
C363	1-124-465-00	ELECT	0.47uF	20%	50V
C364	1-162-207-31	CERAMIC	22PF	5%	50V
C401	1-124-907-11	ELECT	10uF	20%	50V
C402	1-126-963-11	ELECT	4.7uF	20%	50V
C404	1-124-916-11	ELECT	22uF	20%	63V
C405	1-124-907-11	ELECT	10uF	20%	50V
C406	1-126-963-11	ELECT	4.7uF	20%	50V
C451	1-124-907-11	ELECT	10uF	20%	50V
C452	1-126-963-11	ELECT	4.7uF	20%	50V
C454	1-124-916-11	ELECT	22uF	20%	63V
C455	1-124-907-11	ELECT	10uF	20%	50V
C456	1-126-963-11	ELECT	4.7uF	20%	50V
C501	1-162-306-11	CERAMIC	0.01uF	30%	16V
C549	1-162-306-11	CERAMIC	0.01uF	30%	16V
C550	1-162-294-31	CERAMIC	0.001uF	10%	50V

MAIN

Ref. No.	Part No.	Description	Remark
		< CONNECTOR >	
* CN101	1-568-934-11	PIN, CONNECTOR 7P (HCD-T1)	
CN102	1-506-468-11	PIN, CONNECTOR 3P	
* CN401	1-568-942-11	PIN, CONNECTOR 4P	
* CN501	1-568-856-11	SOCKET, CONNECTOR 13P	
CN502	1-750-198-11	CONNECTOR, BOARD TO BOARD 16P	
		< DIODE >	
D101	8-719-987-63	DIODE 1N4148M	
D301-304	8-719-987-63	DIODE 1N4148M	
D305	8-719-933-33	DIODE HZS6A1L	
D306	8-719-933-33	DIODE HZS6A1L	
		< IC >	
IC101	8-759-009-06	IC MC14052BF	
IC102	8-759-008-67	IC MC14066BF	
IC301	8-759-009-06	IC MC14052BF	
IC302	8-759-281-42	IC TC9210P	
IC303	8-759-009-06	IC MC14052BF	
IC304	8-759-634-51	IC M5218AP	
IC305	8-759-009-06	IC MC14052BF	
IC306	8-759-634-51	IC M5218AP	
IC401	8-759-710-59	IC NJM4580D-D	
IC402	8-759-710-59	IC NJM4580D-D	
IC501	8-759-267-27	IC BU2092F	
		< JACK >	
J101	1-770-890-11	JACK, PIN 6P (MD IN/OUT, OUTPUT)	
		< TRANSISTOR >	
Q101	8-729-141-30	TRANSISTOR 2SC3623A-LK	
Q102	8-729-900-61	TRANSISTOR DTA114ES	
Q103	8-729-900-61	TRANSISTOR DTA114ES	
Q105	8-729-900-80	TRANSISTOR DTC114ES	
Q151	8-729-141-30	TRANSISTOR 2SC3623A-LK	
Q301	8-729-141-30	TRANSISTOR 2SC3623A-LK	
Q302	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q303	8-729-620-05	TRANSISTOR 2SC2603-EF	
Q304	8-729-141-30	TRANSISTOR 2SC3623A-LK	
Q351	8-729-141-30	TRANSISTOR 2SC3623A-LK	
Q352	8-729-620-05	TRANSISTOR 2SC2603-EF	
Q354	8-729-141-30	TRANSISTOR 2SC3623A-LK	
		< RESISTOR >	
R101	1-249-425-11	CARBON 4.7K 5%	1/4W
R102	1-249-426-11	CARBON 5.6K 5%	1/4W
R103	1-249-413-11	CARBON 470 5%	1/4W
R105	1-249-417-11	CARBON 1K 5%	1/4W
R106	1-249-417-11	CARBON 1K 5%	1/4W
R108	1-249-417-11	CARBON 1K 5%	1/4W
R109	1-249-433-11	CARBON 22K 5%	1/4W
R110	1-249-433-11	CARBON 22K 5%	1/4W
R112	1-249-417-11	CARBON 1K 5%	1/4W
R113	1-249-433-11	CARBON 22K 5%	1/4W
R114	1-249-425-11	CARBON 4.7K 5%	1/4W
R115	1-247-895-00	CARBON 470K 5%	1/4W
R116	1-249-423-11	CARBON 3.3K 5%	1/4W(HCD-T1)
R117	1-249-417-11	CARBON 1K 5%	1/4W(HCD-T1)
R118	1-249-417-11	CARBON 1K 5%	1/4W(HCD-T1)
R119	1-249-417-11	CARBON 1K 5%	1/4W
R120	1-249-425-11	CARBON 4.7K 5%	1/4W
R121	1-249-421-11	CARBON 2.2K 5%	1/4W
R122	1-249-429-11	CARBON 10K 5%	1/4W
⚠R123	1-212-857-00	FUSIBLE 10 5%	1/4W F
⚠R124	1-212-873-11	FUSIBLE 47 5%	1/4W F
R151	1-249-425-11	CARBON 4.7K 5%	1/4W
R152	1-249-426-11	CARBON 5.6K 5%	1/4W
R153	1-249-413-11	CARBON 470 5%	1/4W
R155	1-249-417-11	CARBON 1K 5%	1/4W
R156	1-249-417-11	CARBON 1K 5%	1/4W
R158	1-249-417-11	CARBON 1K 5%	1/4W
R166	1-249-423-11	CARBON 3.3K 5%	1/4W(HCD-T1)
R167	1-249-417-11	CARBON 1K 5%	1/4W(HCD-T1)
R168	1-249-417-11	CARBON 1K 5%	1/4W(HCD-T1)
R169	1-249-417-11	CARBON 1K 5%	1/4W
R170	1-249-425-11	CARBON 4.7K 5%	1/4W
R301	1-249-433-11	CARBON 22K 5%	1/4W
R302	1-247-887-00	CARBON 220K 5%	1/4W
R303	1-249-425-11	CARBON 4.7K 5%	1/4W
R304	1-249-413-11	CARBON 470 5%	1/4W
R305	1-249-433-11	CARBON 22K 5%	1/4W
R306	1-249-425-11	CARBON 4.7K 5%	1/4W
R307	1-247-895-00	CARBON 470K 5%	1/4W
R308	1-249-433-11	CARBON 22K 5%	1/4W
R309	1-249-433-11	CARBON 22K 5%	1/4W
R310	1-247-807-31	CARBON 100 5%	1/4W
R311	1-247-887-00	CARBON 220K 5%	1/4W
R312	1-249-433-11	CARBON 22K 5%	1/4W
R313	1-249-433-11	CARBON 22K 5%	1/4W
R314	1-249-417-11	CARBON 1K 5%	1/4W
R315	1-249-413-11	CARBON 470 5%	1/4W
R316	1-249-432-11	CARBON 18K 5%	1/4W
R317	1-249-435-11	CARBON 33K 5%	1/4W
R319	1-247-887-00	CARBON 220K 5%	1/4W
R320	1-249-433-11	CARBON 22K 5%	1/4W
R321	1-249-433-11	CARBON 22K 5%	1/4W

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

MAIN PANEL POWER

Ref. No.	Part No.	Description			Remark
R322	1-249-417-11	CARBON	1K	5%	1/4W
R323	1-249-429-11	CARBON	10K	5%	1/4W
R324	1-249-425-11	CARBON	4.7K	5%	1/4W
R325	1-249-417-11	CARBON	1K	5%	1/4W
R326	1-249-412-11	CARBON	390	5%	1/4W
R327	1-247-895-00	CARBON	470K	5%	1/4W
R328	1-249-427-11	CARBON	6.8K	5%	1/4W
R329	1-249-421-11	CARBON	2.2K	5%	1/4W
R352	1-247-887-00	CARBON	220K	5%	1/4W
R353	1-249-425-11	CARBON	4.7K	5%	1/4W
R354	1-249-413-11	CARBON	470	5%	1/4W
R361	1-247-887-00	CARBON	220K	5%	1/4W
R364	1-249-417-11	CARBON	1K	5%	1/4W
R365	1-249-413-11	CARBON	470	5%	1/4W
R369	1-247-887-00	CARBON	220K	5%	1/4W
R372	1-249-417-11	CARBON	1K	5%	1/4W
R373	1-249-429-11	CARBON	10K	5%	1/4W
R374	1-249-425-11	CARBON	4.7K	5%	1/4W
R375	1-249-417-11	CARBON	1K	5%	1/4W
R376	1-249-412-11	CARBON	390	5%	1/4W
R377	1-247-895-00	CARBON	470K	5%	1/4W
R378	1-249-427-11	CARBON	6.8K	5%	1/4W
R379	1-249-421-11	CARBON	2.2K	5%	1/4W
R401	1-249-433-11	CARBON	22K	5%	1/4W
R402	1-249-417-11	CARBON	1K	5%	1/4W
R403	1-249-425-11	CARBON	4.7K	5%	1/4W
R404	1-249-433-11	CARBON	22K	5%	1/4W
R405	1-247-887-00	CARBON	220K	5%	1/4W
R407	1-249-433-11	CARBON	22K	5%	1/4W
R408	1-249-417-11	CARBON	1K	5%	1/4W
R409	1-249-425-11	CARBON	4.7K	5%	1/4W
R410	1-249-436-11	CARBON	39K	5%	1/4W
R411	1-249-403-11	CARBON	68	5%	1/4W
R451	1-249-433-11	CARBON	22K	5%	1/4W
R452	1-249-417-11	CARBON	1K	5%	1/4W
R453	1-249-425-11	CARBON	4.7K	5%	1/4W
R454	1-249-433-11	CARBON	22K	5%	1/4W
R455	1-247-887-00	CARBON	220K	5%	1/4W
R457	1-249-433-11	CARBON	22K	5%	1/4W
R458	1-249-417-11	CARBON	1K	5%	1/4W
R459	1-249-425-11	CARBON	4.7K	5%	1/4W
R460	1-249-436-11	CARBON	39K	5%	1/4W
R461	1-249-403-11	CARBON	68	5%	1/4W
R501-503	1-247-807-31	CARBON	100	5%	1/4W
		< ENCAPSULATED COMPONENT >			
TB101	1-233-377-11	ENCAPSULATED COMPONENT			

Ref. No.	Part No.	Description			Remark
		< TERMINAL >			
TM101	1-537-238-21	TERMINAL BOARD (ANTENNA)			
**********					
*	1-659-288-11	PANEL BOARD			
		**********			
	1-690-880-51	LEAD (WITH CONNECTOR)			
		< CAPACITOR >			
C450	1-164-159-11	CERAMIC	0.1uF		50V
C711	1-164-159-11	CERAMIC	0.1uF		50V
C712	1-126-157-11	ELECT	10uF	20%	16V
		< IC >			
IC702	8-749-922-36	IC GP1U50XB			
		< JACK >			
J401	1-764-106-11	JACK (PHONES)			
		< RESISTOR >			
R745	1-249-413-11	CARBON	470	5%	1/4W
R746	1-249-423-11	CARBON	3.3K	5%	1/4W
R747	1-249-415-11	CARBON	680	5%	1/4W
R748	1-249-417-11	CARBON	1K	5%	1/4W
		< SWITCH >			
S707	1-554-303-21	SWITCH, TACTILE (POWER)			
S708	1-554-303-21	SWITCH, TACTILE (FUNCTION)			
S709	1-554-303-21	SWITCH, TACTILE (VOL -)			
S710	1-554-303-21	SWITCH, TACTILE (VOL +)			
**********					
*	A-4378-887-A	POWER BOARD, COMPLETE (HCD-D1)			
*	A-4378-912-A	POWER BOARD, COMPLETE (HCD-T1)			
		**********			
	1-533-293-11	FUSE HOLDER			
		< CAPACITOR >			
C245-247	1-164-159-11	CERAMIC	0.1uF		50V (HCD-T1)
C248	1-162-282-31	CERAMIC	100PF	10%	50V (HCD-T1)
C249	1-162-282-31	CERAMIC	100PF	10%	50V (HCD-T1)
C298	1-162-282-31	CERAMIC	100PF	10%	50V (HCD-T1)
C299	1-162-282-31	CERAMIC	100PF	10%	50V (HCD-T1)
C548	1-164-159-11	CERAMIC	0.1uF		50V
C801	1-130-491-00	MYLAR	0.047uF	5%	50V
C802	1-130-491-00	MYLAR	0.047uF	5%	50V
C803	1-126-029-11	ELECT	3300uF	20%	25V

Ref. No.	Part No.	Description			Remark
C804	1-126-029-11	ELECT	3300uF	20%	25V
C805	1-126-024-11	ELECT	220uF	20%	16V
C806	1-126-024-11	ELECT	220uF	20%	16V
C807	1-126-022-11	ELECT	47uF	20%	10V
C808	1-126-025-11	ELECT	330uF	20%	25V
C809	1-126-025-11	ELECT	330uF	20%	25V
C810	1-124-122-11	ELECT	100uF	20%	50V
C811	1-124-122-11	ELECT	100uF	20%	50V
C812	1-126-970-11	ELECT	330uF	20%	50V
C813	1-124-913-11	ELECT	470uF	20%	50V
C814	1-124-477-11	ELECT	47uF	20%	25V
C815	1-162-306-11	CERAMIC	0.01uF	30%	16V
C816	1-126-933-11	ELECT	100uF	20%	16V
C817	1-162-306-11	CERAMIC	0.01uF	30%	16V
C818	1-124-572-11	ELECT	100uF	20%	63V
C819	1-124-910-11	ELECT	47uF	20%	50V
C820	1-162-306-11	CERAMIC	0.01uF	30%	16V
C821	1-124-910-11	ELECT	47uF	20%	50V
C822	1-126-942-61	ELECT	1000uF	20%	25V
C823	1-124-463-00	ELECT	0.1uF	20%	50V
C824	1-136-165-00	FILM	0.1uF	5%	50V
C825	1-126-916-11	ELECT	1000uF	20%	6.3V
C826	1-136-165-00	FILM	0.1uF	5%	50V
C827	1-126-942-61	ELECT	1000uF	20%	25V
C828	1-104-664-11	ELECT	47uF	20%	16V
C829	1-126-926-11	ELECT	1000uF	20%	10V
C830	1-126-024-11	ELECT	220uF	20%	25V
C831	1-126-163-11	ELECT	4.7uF	20%	50V
C832	1-126-011-11	ELECT	330uF	20%	16V
C833	1-161-494-00	CERAMIC	0.022uF		25V
C834	1-162-306-11	CERAMIC	0.01uF	30%	16V
C835	1-136-161-00	FILM	0.047uF	5%	50V (HCD-T1)
C836	1-136-161-00	FILM	0.047uF	5%	50V (HCD-T1)
C837	1-164-159-11	CERAMIC	0.1uF		50V
C839	1-126-925-11	ELECT	470uF	20%	10V
C841	1-164-159-11	CERAMIC	0.1uF		50V
C842	1-164-159-11	CERAMIC	0.1uF		50V
C846	1-164-159-11	CERAMIC	0.1uF		50V
C847	1-164-159-11	CERAMIC	0.1uF		50V
C849	1-164-159-11	CERAMIC	0.1uF		50V
C850	1-164-159-11	CERAMIC	0.1uF		50V

< CONNECTOR >

CN201	1-774-280-11	PIN, CONNECTOR 13P	(HCD-T1)
* CN203	1-568-934-11	PIN, CONNECTOR 7P	(HCD-T1)
CN204	1-506-468-11	PIN, CONNECTOR 3P	
* CN206	1-564-508-11	PLUG, CONNECTOR 5P	
CN503	1-695-089-11	PIN, CONNECTOR (PC BOARD) 11P	
* CN504	1-568-826-11	SOCKET, CONNECTOR 7P	
CN505	1-569-932-11	SOCKET, CONNECTOR 15P	
CN506	1-750-180-11	PIN, CONNECTOR (PC BOARD) 5P	
CN801	1-564-510-11	PLUG, CONNECTOR 7P	
CN803	1-770-167-11	CONNECTOR, FFC/FPC 19P	

< DIODE >

D501	8-719-933-41	DIODE	HZS6C3L
D801-804	8-719-200-02	DIODE	10E2
D805	8-719-933-33	DIODE	HZS6A1L
D806-811	8-719-200-82	DIODE	11ES2
D812	8-719-001-79	DIODE	UZL-12H1-TP
D814-816	8-719-200-82	DIODE	11ES2
D817	8-719-934-13	DIODE	HZS24-1L
D818	8-719-933-33	DIODE	HZS6A1L
D819	8-719-933-57	DIODE	HZS9B2L
D820	8-719-000-75	DIODE	UZL-7L1
D821	8-719-010-33	DIODE	UZ-4.7BSB
D822	8-719-200-82	DIODE	11ES2
D823	8-719-987-63	DIODE	1N4148M
D824-828	8-719-200-82	DIODE	11ES2
D829-831	8-719-933-41	DIODE	HZS6C3L

< TERMINAL >

EB1	1-537-771-21	TERMINAL BOARD, GROUND

< IC >

IC801	8-759-820-13	IC	L78MR06
IC802	8-759-822-09	IC	LB1641

< IC LINK >

⚠PS801	1-532-841-21	LINK, IC
⚠PS802	1-532-841-21	LINK, IC

< TRANSISTOR >

Q502	8-729-620-05	TRANSISTOR	2SC2603-EF
Q800	8-729-224-61	TRANSISTOR	2SK246-Y
Q801	8-729-140-96	TRANSISTOR	2SD774-34
Q802	8-729-620-05	TRANSISTOR	2SC2603-EF
Q803	8-729-119-76	TRANSISTOR	2SA1175-HFE
Q804	8-729-140-97	TRANSISTOR	2SB734-34
Q805	8-729-900-80	TRANSISTOR	DTC114ES
Q806	8-729-209-15	TRANSISTOR	2SD2012

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

POWER

Ref. No.	Part No.	Description				Remark
Q807	8-729-900-80	TRANSISTOR	DTC114ES			
Q808	8-729-141-83	TRANSISTOR	2SB1094-LK			
Q809	8-729-209-15	TRANSISTOR	2SD2012			
Q810	8-729-620-05	TRANSISTOR	2SC2603-EF			
Q812	8-729-209-15	TRANSISTOR	2SD2012			
Q813	8-729-620-05	TRANSISTOR	2SC2603-EF			
Q814	8-729-900-80	TRANSISTOR	DTC114ES			
Q815	8-729-801-93	TRANSISTOR	2SD1387			
Q816	8-729-801-84	TRANSISTOR	2SB1013-4			
Q817	8-729-900-80	TRANSISTOR	DTC114ES			
Q818	8-729-900-80	TRANSISTOR	DTC114ES			
		< RESISTOR >				
R504	1-249-425-11	CARBON	4.7K	5%	1/4W	
R505	1-249-417-11	CARBON	1K	5%	1/4W	
R506	1-249-429-11	CARBON	10K	5%	1/4W	
R507	1-249-393-11	CARBON	10	5%	1/4W	
R508	1-249-415-11	CARBON	680	5%	1/4W	
R801	1-249-423-11	CARBON	3.3K	5%	1/4W	
R802	1-249-415-11	CARBON	680	5%	1/4W	
R803	1-249-419-11	CARBON	1.5K	5%	1/4W	
R804	1-249-418-11	CARBON	1.2K	5%	1/4W	
R805	1-249-425-11	CARBON	4.7K	5%	1/4W	
R806	1-249-415-11	CARBON	680	5%	1/4W	
R807	1-249-423-11	CARBON	3.3K	5%	1/4W	
R808	1-249-430-11	CARBON	12K	5%	1/4W	
R809	1-249-429-11	CARBON	10K	5%	1/4W	
R810	1-249-409-11	CARBON	220	5%	1/4W	
R811	1-249-420-11	CARBON	1.8K	5%	1/4W	
R812	1-249-429-11	CARBON	10K	5%	1/4W	
R813	1-249-409-11	CARBON	220	5%	1/4W	
R814	1-249-437-11	CARBON	47K	5%	1/4W	
R816	1-249-425-11	CARBON	4.7K	5%	1/4W	
R817	1-249-421-11	CARBON	2.2K	5%	1/4W	
R818	1-249-417-11	CARBON	1K	5%	1/4W	
R819	1-249-425-11	CARBON	4.7K	5%	1/4W	
R820	1-249-409-11	CARBON	220	5%	1/4W	
R821	1-249-425-11	CARBON	4.7K	5%	1/4W	
R822	1-249-421-11	CARBON	2.2K	5%	1/4W	
R823	1-249-421-11	CARBON	2.2K	5%	1/4W	
R824	1-249-409-11	CARBON	220	5%	1/4W	
R825	1-247-807-31	CARBON	100	5%	1/4W	
R826	1-247-807-31	CARBON	100	5%	1/4W	
⚠R827	1-212-865-00	FUSIBLE	22	5%	1/4W	F
R829	1-249-415-11	CARBON	680	5%	1/4W	
R830	1-249-425-11	CARBON	4.7K	5%	1/4W	
⚠R832	1-212-873-11	FUSIBLE	47	5%	1/4W	F

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Ref. No.	Part No.	Description	Remark
		MISCELLANEOUS	
		**********	
7	1-775-731-11	WIRE (FLAT TYPE) (7 CORE)	
9	1-775-732-11	WIRE (FLAT TYPE) (13 CORE)	
12	1-775-733-11	WIRE (FLAT TYPE) (15 CORE)	
51	1-775-172-11	WIRE (FLAT TYPE) (19 CORE)	
* 55	1-690-880-31	LEAD (WITH CONNECTOR)	
61	1-690-880-51	LEAD (WITH CONNECTOR)	
⚠65	1-558-943-71	CORD, POWER (HCD-T1:E)	
⚠65	1-776-060-11	CORD, POWER (HK, SP EXCEPT HCD-T1:E)	
⚠74	1-569-008-11	ADAPTER, CONVERSION 2P (HCD-T1:SP)	
⚠75	1-770-019-11	ADAPTOR, CONVERSION PLUG 3P (HCD-T1:HK)	
76	1-775-378-11	CORD (WITH CONNECTOR) (SYSTEM CONTROL)	(HCD-T1)
120	1-775-172-11	WIRE, FLAT TYPE (19 CORE)	
⚠155	8-848-367-11	DEVICE, OPTICAL KSS-213B/K-N	
156	1-769-069-11	WIRE (FLAT TYPE) (16 CORE)	
⚠CNJ1	1-526-794-11	OUTLET, AC (EXCEPT HCD-T1:E)	
⚠CNJ1	1-526-882-00	OUTLET, AC (HCD-T1:E))	
⚠F1	1-532-299-00	FUSE (T5AL 250V)	
⚠F801	1-532-286-00	FUSE (T2.5AL 250V)	
⚠F802	1-532-286-00	FUSE (T2.5AL 250V)	
FL701	1-517-441-11	INDICATOR TUBE, FLUORESCENT	
M101	X-4917-504-1	BASE (OUTSERT) ASSY (SPINDLE)	
M102	X-4917-523-4	MOTOR ASSY (SLED)	
M903	A-4608-362-A	MOTOR (L) ASSY (LOADING)	
S291	1-571-924-11	SWITCH, LEAF (LOAD OUT)	
S292	1-571-924-11	SWITCH, LEAF (LOAD IN)	
⚠T1	1-429-096-11	TRANSFORMER, POWER	

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HARDWARE LIST
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#1	7-685-646-79	SCREW +BVTP 3×8 TYPE2 N-S
#2	7-685-871-01	SCREW +BVTT 3×6 (S)
#3	7-685-870-01	SCREW +BVTT 3×5 (S)
#4	7-621-775-10	SCREW +B 2.6×4
#5	7-685-234-19	SCREW +KTP 2.6×8 TYPE2 NON-SLIT
#6	7-624-105-04	STOP RING 2.3, TYPE -E
#7	7-621-255-15	SCREW +P 2×3
#8	7-682-547-09	SCREW (M36), S TITE, + BTT

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

9-960-409-11

Sony Corporation
Consumer A&V Products Company
Home A&V Products Div.

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